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STUDIES IN THE CAUSES OF DELINQUENCY AND THE TREATMENT OF OFFENDERS

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# PREDICTION METHODS IN RELATION TO BORSTAL TRAINING

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DR. HERMANN MANNHEIM Reader in Criminology in the University of London

AND

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With a Foresord by SIR FRANK NEWSAM, K.C.B., K.B.E., C.Y.O., M.C. Permanent Under-Secretary of State for the Home Department





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## FOREWORD

by Str Frank Newsam, R.C.B., R.B.E., C.V.O., M.C., Permanent Under-Secretary of State for the Home Department

THE Home Office has long been conscious of the need for research into various aspects of delinquency, and by section 77 (1) (b) of the Criminal Justice Act, 1948, authority was given for the first time to the Sceretary of State to incur expenditure "in the conduct of research into the causes of delinquency and the treatment of offenders, and matters connected therewith".

Under these powers a modest beginning has been made on a number of research projects with the limited amount of public moneys which in present

circumstances can be made available for this purpose.

The results of one of the projects approved by the Secretary of State are set out in this volume. This project has involved studying the previous records and subsequent careers of 700 of the boys who were sentenced to Borstal training in the twelve months beginning 1st August, 1946. It was honed that the inquiry would throw light on the value in this country of "prediction" or "experience" tables, on which a good deal of work has been done in the U.S.A. and in Europe. But the Secretary of State had in view more than a contribution to pure science. He hoped that such an inquiry might show how far prediction tables could be of practical value in administration; for example, in suggesting what was of real significance in the information recorded in offenders' personal records, or in serving as an additional guide to those who, on behalf of the Prison Commissioners, make reports to the courts as to the suitability of offenders for different types of sentence, or as a further help in classifying offenders after their conviction, making suitable provision for their training and considering their readiness for release. The report opens up interesting fields for speculation under these various heads and noints the way to further relevant investigations.

Dr. Hermann Mannheim of the London School of Economics and Mr. Leslic Wilkins of the Social Survey Division of the Central Office of Information have made in this report a notable contribution to knowledge in this field, and have carned the thanks of persons interested in questions of delinquency, not only in this country but in many other countries also,

I should add that although the project was developed by the authors in consultation with a Home Office "steering committee", the Home Office is not in any way committed to the findings in the report and that the authors take full responsibility for the report and for its conclusions.

F. A. N.

## AUTHORS' PREFACE

THE preparation and writing of this report have, in many ways, been a remarkable experience to the authors. It has been a great privilege to be accorded the opportunity of conducting the first piece of criminological research to be published under the auspices of the Home Office in accordance with the powers given by the Criminal Justice Act, 1948, and we are much indebted to Sir Frank Newsam, Permanent Under-Secretary of State for the Home Department, for doing us the honour of contributing the Foreword. Moreover, we wish to place on record our appreciation of the generous assistance received in the course of our work from the Home Office and in particular from the Steering Committee and its Chairman, Sir Lionel Fox, Chairman of the Prison Commission for England and Wales. To him and to the other members, Mr. P. Allen, then Deputy Chairman of the Prison Commission. Mr. George Benson, M.P., Mr. R. L. Bradley, Director of Borstal Administration, Mr. Frank Foster, Director of the Borstal Division of the Central After-Care Association, Mr. C. P. Hill, Assistant Secretary, Children's Department, Home Office, Mr. T. S. Lodge, Statistical Adviser, Home Office, Mr. F. J. MacRae, Principal Probation Inspector, Home Office we are sincerely grateful. We also express our thanks to Mr. H. C. P. McGregor, Secretary of the Committee, to Miss G. M. K. Beck, B.A., F.L.A., who assisted with the indexes to this book, and to the staffs of the Prison Commission and of the Government Social Survey for their unstinting co-operation, without which our research could not have been completed.

The close co-operation in this research of a criminologist and a social statistician, working as stam and constantly exchanging views on the chain of the project, has been of the greatest value to both of us. Although co-operation between the two disciplines has been easy, it would be unitrue to allow it to be thought that an integration of case study methods with the statistical approach has been completely worked out in this project. We feel, however, that we may now see the way towards such an integration, and have allowed curselves to thoroice at times about this.

No references have been made in the text of this book to Mr. A. G. Rose's work "Five Hundred Bestall Boys', which appeared only when our work was in galley. Mr. Rose's work was not, of course, a prediction study, although it contains much data companish with that in our Chapter V. Our own printing was held back after the original study was completely probabilistic for the Chapter VIII. We have, however, here had be to Intert a Appendix commenting upon the findings of Mr. Rose in relation with our own work and from this it will be clear that the two methods of approach, indeed the two ways of thinking about the same problem, are completely different. We have preferred objective and repeatable methods whilst Mr. Rose followed: the Chapter Strong was a subject to the control of the control of

One thing clearly emerges, whether the subjective or the objective approach is preferred, little is known about optimum methods of treatment for offenders.

#### PREDICTION METHODS IN BORSTAL TRAINING

Many theories exist but few, if any, have been subjected to tests by evidence. Whilst we feel that we may have been able to contribute to methodology, we have been able to assess only two factors in treatment, namely, the Open and Closed systems of training and the effect of periods of detention in Borstal. We believe, also, that our methods have applications in many other fields both in criminology and other social sciences.

both in criminology and other social sciences.

Finally, we must again say how much we appreciated the co-operation of
the administration in this project, and add that we feel that advance in
research in criminology needs the combined efforts of administrators and
research disciplines.

HERMANN MANNHEIM LESLIE T. WILKINS

London, October, 1954

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#### CHAPTER I

# Historical Survey of Prediction Studies in the Field of Criminology

I.1 The bulk of existing prediction studies in Criminology has been produced in the United States. The most important American studies will be discussed in Part I of this chapter, whereas Part II will deal with the work done in Europe.

## PART I

## AMERICAN PREDICTION STUDIES

1.2 These studies cover approximately 80 years and bave been largely concerned with prediction of the future conduct of adult prisoners for the use of Boards of Parole, occasionally also with the future conduct of juvenile offenders discharged from Reformatories, and in a few cases with that of probationers.

1.8 It should be understood that, as a rule, only studies in which an attempt is made, by means of prediction tables, to predict future conduct, not mere follow-up studies without prediction tables (1), are included in this survey (4).

#### THE PRE-GLUECK PERIOD

I.4 Professor S. B. Warner's study (\*), made at the invitation of Mr. Sanford Bates, then Commissioner of Correction of the State of Massachusetts, is usually regarded as the first of its kind. His paper, published in 1928, is interesting not on account of its positive findings, which were negligible, but because of the thought-provoking effect it had on subsequent workers. He selected 680 prisoners of the Massachusetts State Reformatory, 800 of them parole successes, another 300 parole violators and 80 not paroled, who had appeared before the Board of Parole mostly between 1912 and 1920, collected the information available in their files under 64 headings and compared his three groups with regard to these factors. He further considered the criteria used by the Board of Parole for determining whether or not to grant parole, namely: 1. whether a man had profited by his stay in the institution and so far reformed as to be unlikely to commit another offence; 2, his conduct in the institution; 8. whether suitable employment was awaiting him upon release; 4. whether he had a home or other proper surroundings to which to go; 5. a man's ability to tell the exact truth when interviewed by the Board; 6. the seriousness of his offence and the circumstances surrounding it; 7. his previous record in Court or otherwise; 8. the appearance which a man makes before the Board in applying for his parole; 9. behaviour on former

parole.

1.5 As the next step, Warner tried to demonstrate that for most of the criteria used by the Board there appeared to be no foundation in the light of his comparative figures for parole violators and non-violators. The Board regarded, for example, the commission of a sexual crime as militating segainst

release on parole (criterion 6), whereas actually two-thirds of paroled sex offenders proved successes against an overall success rate of only one half. On the other hand, prisoners committed for largeny and breaking, who were most readily paroled, had a violation rate of 57%. Another of Warner's criticisms referred to the fact that for most of the information on family background, nationality, residence, education, habits and circumstances at time of crime, i.e. approximately one half of the factors, the Board relied exclusively on the answers obtained from the prisoners themselves. In short, Warner concluded that none of the 64 factors on which information was available, with the only exception of the psychiatric report, showed any significance as a criterion of success or failure and that no considerable improvement was possible in this respect "without a complete change both in the methods of obtaining information for the Board and in the nature of the information obtained". The blame for the Board's failure to obtain better criteria for parole had, he thought, to be placed "upon the present undeveloped state of the science of criminology rather than upon either the Board of Parole or the Department of Correction".

I.6 Warner's conclusions were immediately attacked by Hornell Hart (4) as merely due to his failure to apply accurate statistical tests. He maintained that the Massachusetts Board of Parole "could greatly improve its parole results by proper utilisation of the information already at its disposal". Applying to Warner's figures the formulæ and tables developed by Yule and Davenport, he showed that for at least 15 items "the contrast between violators and non-violators was greater than would be exceeded by chance once in one hundred times"; it was, therefore, statistically significant. For another 20 items the contrast, while not clearly established, was "very probably significant". These contrasts were found mainly with regard to home environment, character of the prisoner himself and his physical conditions. "all consistent with other findings in criminology". Presenting a table of these factors where the probability that the observed contrast was due to chance was less than about one in 100, he showed that there was a considerable number of factors where prisoners falling in the favourable sub-class of the factor would have a very high chance of success on parole. Of equal importance was Hart's suggestion that all the significant factors should be combined into a prognostic score for each prisoner. "To devise such a scoring system, the intercorrelation between the various items tabulated by Professor Warner. as well as their correlations with parole violations, would have to be studied. so as to work out the best possible weighting system for scoring the pertinent facts." Such a system, he argued, would not only enable the Board of Parole to make reliable forecasts as to the probability of parole violations, but could also be used by the Courts to determine the kind and length of the penalty.

I.7 It is a weakness of Hart's paper that he accepted the prisoners' own story when it suited him, but rejected it when it seemed to conflict previous criminological findings. Moreover, he merely indicated the poshibility of devising a weighted society system, but did not construct too. I.8 The stage was now set for the first important prediction study, that of Professor Emest. W. Burgess of the University of Classica. In the course of an investigation into "The Workings of the Indeterminate-Sentence Law and the Parole System in Illinds" (in made jointly with Judge Andrew A. Preuch Parole System in Illinds" in The Working of the Indeterminate Sentence Law and the Dean Albert J. Harno, he studied the factors making for success or failures on analo. On 21 such factor information was exclused for three erous

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1000 men each, paroled at least 21 years previously from (a) the Illinois State Reformatory at Pontiac, (b) the Illinois Penitentiary at Joliet, and (c) the South Illinois Penitentiary at Menard, altogether for 3000 men. Each factor was divided into a number of categories, for example, type of offence into larceny, rohbery, hurglary, fraud and forgery, sex offences, murder and manslaughter, and all other offences. When the general rate of parole violation was compared with the rate for each of the factors, it was found that for certain categories the rate was higher and for others lower than the general rate. For example, while in the Joliet group the general rate of parole violation was 28.4%, it was 42.4% for offenders convicted of fraud or forgery, but for those convicted of murder or manslaughter only 9%; for those with no previous work record it was 44.4%, but for those with a record of regular work only 12.2%, and so on. "Do not these striking differences", asked Burgess, "which correspond with what we already know about the conditions that mould the life of the person, suggest that they he taken more seriously and objectively into account than previously? These factors have, of course, heen considered, but in a common-sense way so that some one or two of them have been emphasised out of all proportion to their significance." (6)

I.9 The question now arose of how to make the differences in the rate of violation found for the various categories of each of the 21 factors usable for practical purposes. Burgess solved this problem by attributing to each factor an arhitrary weight of one point, so that a parolee whose violation rate for, say, 12 factors was found to he below the general rate for his institution was given 12 favourable points, whereas the factors for which his violation rate was above the general rate of violation were ignored. The individual cases were then scored and a table of "Expectancy Rates of Parole Violation and Non-Violation" was constructed for the various score classes which showed the Expectancy Rate of Violation for men having, for example, 16 to 21 favourable points to he 1.5%, for men with only 2 to 4 favourable points, however, 76-0%.(7) Burgess cautiously regarded this table as merely "illustrative of the possibilities of the method and not in any sense as in a form adapted for immediate use". "Indeed", he wrote, "the method needs to be still further refined and then applied to from 3000 to 5000 cases for each institution in order to ohtain an adequate statistical hasis for the accurate working of satisfactory expectancy tables." He also uttered the warningrepeated by every serious research worker after him-that, although statistical prediction had now become feasible, no exclusive reliance should be placed on it at the expense of the more intensive study of the individual case.

I.10 As will be shown helow, the Burgess method has since become one of the two most widely used techniques in criminological prediction. It has, however, also heen criticised on the following grounds, conveniently summarised by Vold <sup>(8)</sup>.

(a) Only the material contained in official records was used.

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- (b) Only conduct during the official period of parole was considered.
- (c) Some of the categories used to differentiate hetween violators and non-violators were overlapping and too subjective. This applies in particular to Burgess's category "social type" which was divided into subclasses such as "hobo", "ne'er-do-well", "mean citizen", "gangster", etc.
- (d) There was no check upon the reliability or consistency of the findings by reclassification or similar tests.

- (e) A system of scoring was used that assigned equal weight to every one of the 21 factors, whereas it was evident from the tables produced that certain factors were more strongly correlated to success or failure than
- others. I.11 Different weight has to be given to these various criticisms. Whereas those under (a) and (b) question the completeness and reliability of the factual material used as the basis of the statistical work, the others are criticisms of the statistical techniques employed.

THE GLUECK STUDIES I.12 (a) Almost simultaneously with the Burgess study, the first large-scale piece of follow-up and prediction research in the long series of the Glueck studies was completed: "500 Criminal Careers." (9) As Monachesi writes, (10) in this book "is found answers to some of the questions raised by the work of Burgess". In view of the unique place which it occupies in the history of prediction research a full analysis of its contents and achievements seems to be appropriate. Such an analysis is also needed on account of certain important differences between the case material from the Concord Reformatory. Massachusetts, used for the Glueck research and the case material of the present study. It should be understood that the present survey is concerned with the prediction techniques rather than with the follow-up methods used by the Gluecks.

- I.13 The Glucck study is based "upon a careful investigation into the life histories of all prisoners released from the Massachusetts Reformatory whose sentences expired in 1921 and 1922. There were 510 such men".(11)\* This yielded a follow-up period of at least 5 years between the expiration of their sentences and the beginning of the investigation in 1927.(11a) The period between discharge from the Reformatory and the beginning of the Investigation was in most cases longer, however, as many men had left the institution already before the expiration of their sentences, namely 51.8% of them in 1917 and 1918 and another 17% in 1919 and 1920.(12) In 85-3% of the cases the sentences imposed on the men were of indeterminate length, mostly with a maximum of 5 years, and in the remaining cases usually of 2 years. The fixed sentences ranged from 3 months to 6 years. The average period actually spent in the Reformatory was 21 months, the most typical period being 12 to 15 months.(18) 310 of the men had been committed to the Reformatory during the years 1916 and 1917, 86 between 1910 and 1915, and the rest between 1918 and 1921. The theoretical length of supervision after discharge, i.e. the difference between the time actually served and the maximum limit of the sentence, varied from nil to 50 or more months, with an average of 39-8 months; the actual periods were much shorter, however, with an average length of 18 months.(14) While the average age of the men at committal was 20:19 years, with a few of only 15 or less and 15:4% of 17 or less, there were, on the other hand, 33.1% between 21 and 27 and 6-6% even between 28 and
  - 86. L14 Without going into details concerning institutional treatment and similar matters, some of the principal differences between the system at Concord and the Borstal system may be summed up as follows: the age range of

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the Concord cases was wider than that for Borstal cases, and the average age was higher than that of the cases used in the present study (20-19 years against 18-0 years). Some of the sentences received were longer than a Borstal sentence, up to 6 years. The average period of stay in the institution was 21 months as against 17.7 months for the present cases. The theoretical period of supervision after discharge was longer than in Borstal, whereas the actual period may have been not much different. The follow-up period after discharge from the institution, in many cases not much less than 10 years, was considerably longer than that for the Borstal cases. Another difference is that, whereas the cases used for the present study are a sample of the male population of English Borstal Institutions as a whole, the Glueck material covers only a single Reformatory. In their discussion of the "typicality" of their findings, the Gluecks express the view that their cases are representative not only of the general "run of the mill" of the Massachusetts Reformatory, but also of the population of Reformatories in other American states, although in the latter respect they regard this as a strong impression rather than as an established fact. The same applies in their view to the regime at Concord.(15) A very detailed description is given of the latter, whereas, as pointed out in Chapter II below in the present study, the general features of the English Borstal system have been taken as generally known and attention has been paid almost exclusively to certain special features prevailing at the time from which the cases are taken. With regard to the question of typicality, it should be added that, as in a high proportion of Concord cases the men had committed their offences and/or had been sent to the Reformatory during the first World War, wartime conditions may have affected the typical character of the sample. I.15 While a comparison of the principal findings of the Gluecks with those

1.15 While a comparison of the principal findings of the Gluceks with those of the present study will be given below in Chapter VI their technique of investigation may here be contrasted with that of Burgess. The following differences should be noted:

In view of the unreliability and incompleteness of much of the information contained in the official files, the material was carefully checked and supplemented from many other sources. The finger-print files of the Department of Correction were consulted to verify the identity of the men. Moreoverand this has been regarded as one of the greatest advances made in this field of research-in a considerable proportion, 73% of the cases, the ex-prisoners or their near relatives were interviewed by an experienced field investigator to check and supplement the material and to obtain a truthful picture of the adjustment made.(16) As a result, there were finally only 27 cases out of 510 on which no subsequent information whatsoever was available. The whole investigation, which had lasted for three academic years, and the methods used were described in the greatest detail. Every aspect of the various stages in the lives of the 510 men was scrutinised; their families. their personal and social background, criminal experience before committed to the Reformatory, their condition, conduct, occupation, etc., within the institution, and its effect on them; finally their parole and post-parole histories. In two other chapters the data thus collected were related to the criteria of success, partial failure and total failure as defined on the strength of the criminal records.(17) (Of the 422 men whose post-parole conduct could be ascertained, 21.1% were successes, 16.8% partial and 61.1% total failures.) First, the relation of the pre-Reformatory factors and, after

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that, the relation of Reformatory, parole, and post-parole factors, altogether of over 50 factors, to post-parole criminality were analysed, using the statistical technique of the mean square contingency coefficient-a feature absent in Burgess's study. There were, however, deficiencies in their weighting system which will be discussed later. It was rightly stressed by the Gluecks that the correlations established in this way were not to be taken as indicating causes of criminal behaviour or recidivism; that some of the factors having a low correlation with recidivism might, nevertheless, have been responsible for initial delinquency and that these factors should, therefore, he carefully studied and recorded in the files. (18) The factors examined were classified as (a) those having a coefficient of correlation of under -20 and, therefore, only slightly or not at all related to the criterion of success or failure; (b) those having a coefficient of from -20 to -40 and, therefore, appreciably related to the criterion; (c) those having a coefficient of 40 to 60 and, therefore, considerably related to the criterion. (19) Among pre-Reformatory factors of the first category were, for example, the type of crime for which the men had been sentenced to the Reformatory and their intelligence: in the second category there were, among others, their age at first delinquency, their physical condition on entering the Reformatory, and their psychiatric condition: in the third category was, in particular, the factor pre-Reformatory work habits. Among the post-commitment factors, in the lowest category were, for example, their working record in the Reformatory, and their length of stay in it; in the second category were the frequency and seriousness of their offences in the institution; in the highest category were their post-parole working habits and family relations. I.16 The next step was to construct prognostic tables, using the 6 most

important pre-Reformatory factors, i.e. pre-Reformatory work habits (C=-42), seriousness and frequency of pre-Reformatory crime (C=-86). arrest for crimes preceding the offence for which sentenced to Reformatory (C=-29), penal experience preceding Reformatory incarceration (C=-29). economic responsibility preceding sentence to Reformatory (C= 27), and mental abnormality on entrance to Reformatory (C=-26). It should be noted, however, that the total score yielded a correlation of -45, which is only very slightly above that of '42 for the single factor pre-Reformatory work habits. Whereas these 6 factors formed the hasis for the construction of prognostic tables for the use of judges, the corresponding tables for Boards of Parole in deciding on release on parole or further supervision and similar matters included, in addition, the following factors: frequency of the offences in the Reformatory (C=83) and criminal conduct during perole (C=47). For the use of judges dealing with recidivists who had already been through the Reformatory and parole stages 5 post parole factors were added. Factors with a coefficient of less than '20 were excluded from consideration. The seoring was done by adding up the highest and the lowest percentages of total failures which an offender could have and hy adding two more score-classes between these two extremes. Finally, each individual offender was classified within these score-classes, and nine illustrative cases not used for the construction of the tables were presented to show the failure rates of men in the various score classes.

I.17 "Later Criminal Careers" (21) is a follow-up study to "500 Criminal Careers," undertaken some years after the publication of the first investigation. Of the original group of 510 men, 56 had mean vhile died. The remain-

ing 454 were followed up over a second 5-year period after the expiration of their sentences, with the primary object of examining the biological, psychological and social changes and the changes in criminal behaviour brought about by the passage of time. As we are not concerned here with these aspects there is no need to discuss the answers presented by the investigators. In the chapter dealing with prediction, the range of predictability is extended from the original 5-year span to a period of 10 years after expiration of sentence. In all, 68 factors were examined. Of the 26 factors showing a considerable relationship to criminal conduct over these 10 years the 5 which hore the highest relationship, correlations ranging from 23 (age at first delinquency) to 48 (mental condition), were used for the construction of the prognostic table. On the whole, it was found that the same factors as in the first study were again prominently related to success or failure, though the coefficient of correlation was now lower than before for the factor "work habits" and considerably higher for the factor "mental condition". In other chapters of the book, emphasis is placed upon mental abnormality as the strongest impediment to reformation, (82) whereas "the benign process of maturation" emerged as the principal factor producing success, (25) I.18 No attempt was made in this study to check the validity of the tables

produced in "500 Criminal Careers."

L19 In the third work of this series, "Criminal Careers in Retrospect",(21)

the same group of ex-prisoners was followed up for another 5-year prietd, i.e. for allogether 19 years after expiration of their sentences, and prediction tables were constructed to enable a judge to select the particular form of prediction tables were constructed to enable a judge to select the particular form of predictive forms of the pr

1.20 In their second series the Gluecks are concerned with juvenile delinquents. The principal object of the first of the two studies in this series. "One Thousand Juvenile Delinquents",(28) was to examine the procedure followed by, and the co-operation between, the Boston Juvenile Court and the Child Guidance Clinic of the Judge Baker Foundation in Boston (now Judge Baker Guidance Center), as illustrated by a follow-up study of 1000 boys referred to the Clinic by the Court for clinical examination between 1917 and 1922. Did the carrying out of the recommendations of the Clinic have any influence on the after-conduct of these boys? Finding that the after-histories of those cases where the recommendations of the Clinic had been carried out by the Court were only slightly more favourable than the after-histories of the other boys (C=-12), the authors had to consider the possibility that in the first group factors other than the carrying out of those recommendations might have been responsible for the more favourable result. The relations of sixtyodd factors to success or failure were studied by means of two different statistical methods, the "factor method" and the "failure-score method". Including even factors where the correlation of the most favourable sub-class to reformation was very slight (factor method), the authors found that regardless of the carrying out of the Clinic recommendations that correlation was -28. For the cases where the recommendations had been carried out the

correlation was 30, which proved that this factor had some favourable effect independent of other favourable factors. For the construction of the prediction tables, however, which are presented in Chapter XI of the book, only the 6 factors bearing the highest correlations with success are used: discipline of juvenile by father (2893), discipline of juvenile by mother (101), school misconder (200), age at first-shown behavior discorder (187), length of time between onset of delinquency and examination of child by the Clinic (161). It will be noted that the correlations are only moderately high and that the last-mentioned factor applies exclusively to a group of cases all of whom were examined by a discorder control of the control of

I.21 The second study in this series, "Juvenile Delinquents Grown Up", (27) is a follow-up study, over a further period of 10 years, of the original boys. These boys, at the end of the first follow-up period of an average age of 181 years, were now of an average age of about 29 years. 60 of them had in the meantime died, but all but 47 of the remaining 940 could be traced and in 591 cases the men or members of their families were personally interviewed. (28) While we are not concerned with the results of this study as far as it shows the changes in the circumstances and conduct of this group, it may be mentioned that one of the major findings was the improvement in conduct with advancing age. Published 8 years before "Criminal Careers in Retrospect", it was the first study covering a period of 15 years and relating conduct to age and treatment. Conduct was studied not only, as in the previous investigations, for the period after the completion of the various forms of peno-correctional treatment, but also for the treatment period itself, and an attempt was made to distinguish different "conduct types" and "treatment types". (29) Prediction tables were then constructed in the usual way by selecting, out of a total of some 60 factors examined, the 5 factors showing the highest correlations with success or failure, i.e. birthplace of father (-26), birthplace of mother (-22) time parents were in United States (-20), religion of parents (-20), age of offender at first misbehaviour (-22). With regard to the first 3 of these factors it might be of interest to note that the incidence of serious criminality was considerably higher in the case of those whose parents were born in U.S.A. and resident there for life. Moreover, it should be noted that these 8 factors are specifically related to American conditions, and also that the highest correlation reached by any single factors was 26. The general prediction table was then supplemented by 8 others showing the likelihood of success. failure, early failure and later success, or erratic behaviour during various forms of treatment such as probation, probation under suspended sentence. Reformatory, prison and also in the Army and Navy. The practical application of these tables to a small number of cases was demonstrated, but no general validation was attempted.

Ä22 "Five Hundred Delinquent Women", (200 published in the same year as "One Thousand Juvenile Delinquent", si unique ins of are as it is the only one of the Glueck studies dealing with females and that it is not part of a series. 300 cases of women were selected in consensitive order whose parole between 1921 and 1925. Their average age with the contract of th

tory and a detailed account of 11 life histories, the smal painstaking study was made of these 500 women, their characteristics and development after discharge. If anything, the investigation was relieved to the difficult than in "500 Chrimial Careers" (310 285 factors welled and more difficult than in "500 Chrimial Careers" (310 285 factors welled and more which 60 or 70 had to be discarded because of lack of adequate information. For the tracing and interviewing of the women one male and one female field of complete, and special attention was paid to the difference between flower of the work of the women one male and one female field to the "typicality" of their and of female officers, 130 With regard to the "typicality" of their standard part of the many their consistence of the women of the work of the work

I.23 In constructing their prediction tables the authors tried to simplify the technique adopted in "500 Criminal Careers". Instead of using the "somewhat involved computation of mean square contingency", the degree of association between any particular factor and non-recidivism was established by the "determination of the maximum percentage difference between any sub-class of a particular factor and the expectancy of recidivism for the entire group of cases involved".(34) As, for example, the total rate of nonrecidivism for the group was 23.5 and that for those with regular church attendance 28.4, for those with irregular church attendance 14.9 and for those with no attendance 40.0, the degree of association was taken to be 40.0-28.5=16.5. Of the 15 factors bearing the highest association to non-recidivism the 5 which seemed to be most suitable were used for the construction of the tables, i.e. retardation in school, neighbourhood influences within a year of commitment, steadiness of employment, economic responsibility, mental abnormality. No validation of the tables was attempted, but the commonsense prognoses made in 78 of these cases by the staff of the Reformatory, described as "particularly intelligent and forward-looking", were compared with the actual outcome, with the result that at least two-fifths of these prognoses had to be regarded as grossly erroneous.(35)

1.24 The 6 Glueck studies so far described may be presented in a diagram as follows:

	5 years	5 years	5 years	=15 ye
	500 Criminal Careers	Later Criminal Careers	Criminal Careers in Retrospect	
	1000 Juvenile Delinquents	Juvenile Delino		
Γ	500 Delinquent			2

L25 While "After-conduct of Discharged Offenders" (36) contains mainly a brief recapitulation of the main aspects of the earlier Glueck studies, "In-raveling Juvenile Delinquency" (37) bears a different character. It is primarily a control-group study of 500 delinquent boys committed to State Correctional Schools in Massachusetts and 500 non-delinquent boys from

Women

10 ordinary State schools in Boston. Their average age when selected for study was over 14 years. There was no follow-up work connected with this study. which covered altogether 402 factors, but some of the differences between the two groups discovered in its course were used to construct tables designed to predict the future conduct of children at school entrance, i.e. aged six or seven. While the differences in physique and health and those emerging from certain psychological tests (Wechsler-Bellevue and Stanford Achievement Tests) were not regarded as suitable for the purpose, 8 tables were constructed based respectively on (a) traits of character structure derived from Rorschach Test, (h) personality traits derived from psychiatric interview, and (c) social background. In accordance with the technique used in previous studies, each table was made up of 5 factors, i.e. for the first table: assertiveness, defiance, suspiciousness, destructiveness and emotional lability; for the second table: adventurousness, extroversion in action, suggestibility. stubbornness and emotional instability; for the third table: discipline of the child by the father, supervision of the child by the mother, affection of the father for the child, affection of the mother for the child and cohesiveness of the family group. The authors explain that, as it was the object of these tables to identify potential delinquents already at school entrance age, the predictive factors had to he selected from those operative in boys of that age. The tables were then constructed by comparing the incidence of three subclasses of each factor for the delinquent and the non-delinquent groups and by establishing score classes. It was pointed out that the total score retained its quality as a predictor regardless of variations of its componenent parts. Comparisons of the results of the three tables showed that there was agreement between the social and the psychiatric tables in 67-9% and between the psychiatric and Rorschach tables in 69-8%. In 49% all three tables placed a boy in the predictive category to which he properly helonged in view of his conduct, and in another 37.8% at least two of the three tables succeeded in doing so. Only 2-4% of the boys were incorrectly identified as delinquents or nondelinquents. In explanation of disagreements between the tables the authors pointed out that a high failure score had a different meaning in different tables, the Rorsebach table referring to basic character structure, the psychiatric table to the dynamics of the personality, and the social table to family inter-relations.

I.26 "Unraveling Juvenile Delinquency" differs from most other prediction studies in trying to predict future delinquency in boys not yet delinquent and in trying to utilise their characteristics at the age of fourteen to predict

future delinquency of children aged six or seven. I.27 While an assessment of the various aspects of the Glueck technique will

be made in the appropriate sections of subsequent chapters, a few observations of a general nature may be not out of place already at this stage:

I.28 A certain amount of overlapping will have been noticed between some of the factors used for the construction of the Glueck tables. Although, for example, the factors "industrial habits preceding sentence to Reformatory" and "economic responsibility preceding sentence to Reformatory" cover to some extent the same ground, (87a) both factors are included in the prediction tables in "500 Criminal Careers" and "Later Criminal Careers". The authors have been aware of the problem and discuss it in some of their later books. While in "After-conduct of discharged Offenders" (38) overlapping factors are regarded as "largely dead-wood in the prognostic process", in "Criminal Careers in Retrospect", "99" where the matter is more fully treated, the authors take the view that the use of 5 partially interrelated factors might be preferable to that of 8 independent factors as in the former case errors in classification on the part of those charged with the collection of the data would have less regions results. In a special statistical examination of the factors used, which are the collection of the part of the serious results. The special statistical examination of the factors used, which are the serious results. The special statistical examination of the factors used, which are the serious results and the serious results are the serious results. The special statistical examination of the factors used, which are the serious results are th

of predictive factors is that, for practical reasons, objective factors on which information is easily obtainable and easily verifiable by the Courts should be preferred to factors involving difficult subjective evaluations such as, for example, "mental condition".(60

L80 The question of what number of factors is most profitably employed for the construction of the tables leads to a discussion of several other American studies made after the publication of Burgess's investigation and of "500 Criminal Careers".

OTHER AMERICAN STUDIES L81 Professor George B. Vold of the University of Minnesota has made several important contributions to the subject. In his book "Prediction Methods and Parole"(41) he used the records of 542 men discharged from the Minnesota State Prison and of 650 men discharged from the Minnesota State Reformatory during the period 1922 to 1927. The number of factors on which information was collected from the records was 49 (84 of them preparole factors). Using the coefficient of mean square contingency, the correlations were worked out, for the combined prison and reformatory groups, between 44 factors and outcome on parole. The highest correlation, that for previous work record, was 0.288; the two lowest were age at conviction (.060) and aid given to dependants while the inmate was in prison (-050). The author concluded that, while no single factor appeared to be of outstanding importance, few, if any, appeared to be without any significance. In one respect his figures were at variance with the findings of most other investigators before and after him: parole violations showed no tendency to be most frequent in the earlier part of the parole period, but occurred fairly uniformly throughout the whole year. This seemed to be a strong argument against the practice then prevailing in Minnesota to limit the period of parole to one year.(42) As in previous studies, in a considerable number of the cases information was not available on some of the factors.(44) Whereas no use had been made of this category in the Burgess and Glucck studies, Vold paid special attention to the various possibilities of dealing with it (see below).

Jaz An interesting feature of Vold's study is his comparison of the efficiency of the Burgess technique of using all available factors without weighting the with the Glosek technique of using only the most significant factors. Both with the factor of the control of the control of the factor of t

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the greater laboriousness of the Glueck method of scoring no further use was made of it. (44) The most satisfactory results, i.e. those producing the sharpest differentiation between parole violators and non-violators, were obtained from tables based on the selected 25 factors, whereas the least satisfactory, but, nevertbeless, by no means negligible, differentiation was obtained from the 17 factors showing the lowest contingency values. Actually, the difference in predictive value between tables using only high contingency and those using only low contingency values was comparatively small. (46) Other noteworthy features of this study are Vold's attempt to validate his tables by dividing his material into two randomly selected halves in order to use the one group as the "operating" and the other as the "control" group, and his use of another investigator to make an independent assessment of some of the cases. In a later study (46) Vold compared, for a group of 282 Minnesota prisoners, (a) the correlation between predicted and actual outcome, which was about 4, (b) the correlation between the estimate of a parole officer and the actual outcome, which was not quite -8. In this connection Vold rightly emphasised that such comparisons between predicted and actual outcome refer only to the number of cases in the various categories without giving any information regarding the correctness of the prediction for individuals.

I.33 A year after Vold, Professor Elio D. Monachesi, also of the University of Minnesota, published his book "Prediction Factors in Probation", the first prediction study using probation material. (47) A total of 1515 probation cases, adults and juveniles, bandled by a Prohation Office in the State of Minnesota during the years 1928 to 1925, were examined. The information found in the records was reduced to 50 factors for the juvenile and 34 for the adult group. Following Vold's technique, the classification of certain "highly conceptual" items, such as "social type" (Burgess), was rechecked for a small sample of the cases and the agreement between the first and second entries checked by means of three statistical measures of reliability. Also in conformity with Vold, the group of "no-information" cases was treated in the same way as the rest and comparisons were made between prediction according to the Burgess and the Glueck techniques. It was again found that the

two techniques furnished approximately the same results. I.34 Simultaneously with Vold and Monachesi, Clark Tibbitts published two articles incorporating the results of a study of 3000 youths paroled within the 7-year period 1921-7 from the Illinois State Reformatory at Pontiac.(48) The object of his study was to validate Burgess's findings by applying his technique to a larger sample taken from one institution. With regard to his definition of "success", it is worth noting that, as in the experience of the author most violations of parole other than purely technical ones occurred within the first 12 months, subsequent violations were not counted. The technique employed was essentially the same as that of Burgess, i.e. a comparison of violation rates for each of the sub-classes of a number of factors. Most of the factors employed by Burgess, including "Social Type", were retained, but the total number was increased to 28. No Pearsonian coefficient of correlation was used, but to some extent a tetrachoric "r" was calculated. The highest correlation thus reached was -179 for type of offender (first offender or recidivist). With regard to the predictive value of the type of offence for which the parolee had been committed, Tihbitts's figures confirm Burgess's finding that "those guilty of the crimes that shock society are the

least likely to violate parole". The type of neighbourhood where the

offender lived at the time of the offence and his work record were found to be even more predictive than in Burgea's study. Whereas offenders of low intelligence faced less favourably than in the previous investigation, "emorally unstable" individuals absorbed in both cases the lowest vollation rates, record to the control of the cont

L88 In the same year, Dr. Norman Penton published his book "The Delinquent Boy and the Correctional School", "do an account of the work of the Whittier School in California. It contains a companion with regard to 500 factors of the after-histories of 400 Whittier boys over a period of 8 to 5 years after admission, i.e. mainly for the first 2 years of their post-institutional history. The statistical method used was to work out the differences between those who were regarded as adjusted and those who had failed to adjust according to a "critical ratio" of significance. A critical ratio of adjust according to a "critical ratio" of significance. A critical ratio of a number of factors the critical ratio was or as a substantial product of a number of factors the critical ratio was or as a substantial to the concludes that "some general rating of social adjustment at the author concludes that "some general rating of social adjustment at the institution and of school spirit may offer valuable data as to the probabilities of the boys' future adjustment". He also stresses the importance of the first 2 years after dischange, 410

Lar The much discussed technique used by Ferris F. Lanuelas differed from that of previous investigation in that he placed the emphasis on a study of the prisoner's attitudes which he tried to explore, in the first instance, by using the subjective "hunches" of particularly well qualified fellow-prisoners regarding the parollability of the inmate. Discussions between the prisonerregarding the parollability of the inmate. Discussions between the prisonerspectually, formed the basis of the original hunches.

L38 H. Ashley Weeks's (63) comparison of 420 delinquent and 421 nondelinquent boys, picked at random from secondary schools of the city of

Spokane, is another example of a prediction study not based upon follow-up research. L88a In 1989 the United States Department of Justice published as part of

the Attorney-General's comprehensive "Survey of Release Procedures "the an analysis, based on the case histories of approximately 100,000 follous, of "some factors associated with purole selection and outcome". This analysis haved that, with the critica is ofte employed those prisoners who had a showed that, with with the critical is often employed the prisoners who had a silvent of the contract of the case histories of 22,050 persons relaxed from Federal institutions between the contraction of the contraction of the contraction of the contraction and use

of prediction tables would materially improve the "common-sense" selection made by the Federal Parole Board. Even this second study is not a prediction study in the strict sense of the term as no prediction tables were actually constructed. The association of 82 factors to outcome was shown, not by way of coefficients of contingency, but in percentages of agreement, and there was no weighting of the individual factors. To test the reliability of the official records used, consistency tests were made by having the information on 113 factors which had been abstracted by one group of survey recorders from 500 cases histories recorded by a second group of workers. The results indicated that the extent of consistency in the recording of the data was as high as, if not higher than that found in previous studies by Vold, Monachesi and Tihhitts. In view of the considerable variations of violation rates in the various Federal institutions it was not regarded as appropriate to present figures based upon combined violation rates, and data were shown separately for the three largest institutions: Leavenworth, Atlanta and Chillicothe. The factors studied were divided into 5 groups: parental, social, criminal, institutional and post-institutional history, with special emphasis on the lastmentioned category. Some of the factors used were highly subjective, as for example, "Congeniality of parents", which included "frequent bickerings", "abandonment of home for short or long periods" and other "indications of strained relations"; "congeniality of marriage"; "congeniality with parents"; "babits", which included, among others, the sub-categories "nomadic" and "sexual promiscuity". As the results are shown without any weighting and for each institution separately, no summary can conveniently he given. The final conclusion of the authors of the study is that. while it would have been possible to construct prediction tables using 89 of the 82 factors, there was no evidence that the use of such tables would produce any substantial improvement in the Federal parole practice. It was admitted, however, that, parole prediction still heing relatively new, with more information and reliable official records and more refined statistical techniques the possibility of more accurate predictions could not be excluded. I.39 Dr. Ohlin's hook "Selection for Parole" (54) deserves special attention not only hecause of its scientific value hut also in view of the author's official position as the research sociologist of the Division of Correction of the State of Illinois, where a routine prediction system for parolees was established as early as in 1933.(65) Dr. Ohlin's technique is largely derived from Burgess's pioneer study, also carried out on Illinois parolees. The following are the principal stages in the construction of Ohlin's prediction or, as he prefers to

call them, experience tables:

Le of Fart, a smalle of at least 1000 cases had to be selected having behind the contrast of their panie to be a contrast of the panie to be a contrast of the panie to become final, which are the contrast of the panie to become final, which are the contrast of the panie to be contrast to the contrast of the contrast o

subclass. For the factor "family interest", for example, the violation rates ranged from 5% in the subclass "very active" to 40% in the subclass "none", compared with an overall rate of 28% for the total of 4941 cases. Accordingly each subclass was marked as a favourable, neutral or unfavourable predictive item; for example, under "type of offence" homicide and sex offences were rated as favourable, burglary as unfavourable, items. Each parolee was given one favourable point for every favourable subclass in which he fell, one unfavourable point for every unfavourable and one zero for every neutral subclass. His final score was obtained by subtracting the number of unfavourable from that of favourable points, whereas the neutral subclasses were ignored as having no predictive value. As a result of a series of tests designed to measure the statistical significance, association with outcome, reliability and stability of the value of the subclasses some of the latter were omitted. The experience table was then constructed showing a range in violation rates from 3% for persons with 5 to 10 favourable points to 75% for those with 5 to 6 unfavourable points. Dr. Ohlin does not believe in highly complicated scoring and weigbting procedures which, in his view, add very little to the value of the table. Nor does he regard the individual interview technique of the Gluecks as practicable in view of its high cost. On the other hand, he stresses the need for field investigations to supplement the classification and prediction reports: the need for constant checks of the reliability of the classifications; and for routine adjustments of an experience table to keep it abreast of the changes incessantly occurring in the parole situation. Further technical suggestions for the organisation of a routine prediction system are made in the Appendixes, and it is stated that experience in Illinois has shown up to 36% increase in accuracy of prediction through close adherence to the prediction table.

Lat Ohlin follows Burgess not only as far as the absence of a weighting system is concerned, but also in his adoption of such factors as "social type" with the same or similar subclasses (see above under L10), which be regards as one of the most useful predictive subclasses. The same of the most useful predictive subclasses (see above under L10), which be regards as agreement. Some of the other factors used by Ohlin are also highly subjective, in particular "personality" and "psychiatric progonist". In their Introduction to Ohlin's book, Burgess and Sellin suggest that data obtained by personality tests and interviews, and also the ratings of the immate by members of the staff, should be used in conjunction with statistical prediction. In so far following the Gluecke, is in favour of using only a small number of highly predictive factors for his table, and that in other respects, too, his statistical technique bears evidence of the improvements in methods of re-

search brought about in the past 20 years.

14.3 Nearly 20 years after Monacheni, Professor Morris G. Caldwell of the
University of Alabama published the prediminary results of another largeUniversity of Alabama published the prediminary results of another largeProfessor of the Company of the Company

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towards greater success seemed to occur between  $2\frac{1}{2}$  and 3 years on probation. On the the other hand, probation violation occurred most frequently during the first 2 years. No prediction tables were published by Caldwell. I.44 Albert L. Reiss, Jr., (48) developed prognostic instruments to predict the recidivism of a sample of 736 juvenile delinquents placed on probation in the years 1948 and 1944 by the Juvenile Court of Cook County, Illinois. A follow-up sample of 374 cases was used to test the validity of the prediction instruments. Starting from the hypothesis that a small number of stable predictors is likely to yield the greatest accuracy and efficiency in prediction, he selected, out of a total of 20 unfavourable factors found to be significant, the following 5 as stable predictors: (a) economic status of family: dependent; (b) truancy: usually truant; (c) deportment record in school: poor or very poor; (d) adequacy of personality controls: relatively inadequate ego and super-ego controls; (e) recommendations for treatment: place delinquent in adequate community environment or closed institution or

psychotherapy. 1.45 These items were classified as stable predictors because they were not only significantly correlated wish the criterion but had also shown the same direction of association in at least two previous prediction studies undertaken at different times. Prediction based upon these items was found to be more accurate than prediction based upon five unstable items. Generally speaking, it was found that stable predictors were those with relatively higher associations with the criterion than unstable predictors. Attention was also drawn to the fact that predictions are likely to be more efficient for socially homogeneous samples than for a heterogeneous population, such as one including Negroes and Whites. This is in accordance with an observation made by Vold with regard to a sample consisting of inmates of prisons and reforma-

I.46 It has to be noted that the fourth of these items contains strong subiective elements and may be defined differently by different observers. No definition of "adequacy of personality control" is given by the author. In a second paper (59) the author explains, however, that data on this item were obtained "from the judgments of the social work staff at the juvenile court and the reports of the psychiatrists at the Institute for Juvenile Research (in Chicago)". This item was, in fact, found to be the most efficient single predictor and only slightly less efficient than prediction from a battery of four

items. L47 In the "Cambridge-Somerville Youth Study",(99) the social development of 650 boys aged between 6 and 12 years and resident in these two cities of the State of Massachusetts, some of them regarded as "pre-delinquent". others as "normal" or doubtful, was studied over a considerable period of time under experimental conditions, i.e. 325 of them were given the benefit of the services of specially selected counsellors, whereas the other 825 were left to the ordinary social services existing in their localities. The practical side of the research, which was commenced in 1985, came to an end in 1945, though for reasons mainly connected with the war many boys had lost touch with the study already some years earlier. As each of the boys had in the years 1937 to 1988 been given a careful prognosis as to his likely future delinquency by a Selection Committee consisting of a psychiatrist and two penal administrators of wide experience in dealing with young offenders, it was only natural that some of the material collected by the Study should be used to check the

accuracy of their prognoses in the light of subsequent actual developments, (61) For the purpose, 100 T-boys, i.e. boys belonging to the group which had been provided with counsellors, and 100 C-boys, i.e. those who had received no such assistance, were selected. 69% of them had originally been labelled as probably future delinquents, 25% as likely non-delinquents, and 6% as doubtful. These predictions were based upon information regarding the mental and physical condition of the boys, progress in school, family conditions and the boys' adjustment to them and to their environment in general. Little information was available on the boys' heredity and the first few years of their lives, nor had the predictors been able to interview them in person. It was found that the factors regarded by the predictors as important could be arranged under 52 headings, of which 21 seemed to be of particular importance. When, approximately 10 years later, these 200 cases were reassessed by two judges, the result was as follows: In 22 of the hundred T-boys and 16 of the hundred C-boys there was perfect agreement between predictors and judges. Of 70 T-boys and 68 C-boys regarded as pre-delinquents by the predictors only 23 and 27 respectively had actually become delinquents. Of 23 T-boys and 27 C-boys regarded as not pre-delinquent 20 and 24 respectively were later judged "seldom or least delinquent". Delinquency had been accurately predicted for most cases in which it subsequently occurred, but it had also been predicted in many cases in which it failed to occur. The correlation between prediction and outcome was -44 for the T-boys and -54 for the C-boys; for both groups together it was 49. The difference between ·44 and ·54-a difference which had to be expected in view of the special treatment received by the T-boys-was not regarded as statistically significant.

L48 Two other attempts were made by the Study to check the predictive value of prognostin techniques: Teachers were afacted to make a prognosis, and a Behaviour Rating Scale (Haggerty-Olson-Wickman) was also used, and the second seco

### VALIDATION STUDIES

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German validation studies will be mentioned below under Part II.

I.50 The first of these validation studies was made during the last war by Schneider and La Grone with the co-operation of Professor and Mrs. Glueck, (63) They applied some of the prediction tables in "Criminal Careers in Retrospect" to a sample of 200 soldiers who had been delinquents in civilian life and were at the time of the inquiry in confinement for military offences. The sample was chosen from a group of 500 by selecting those files which contained the most adequate data on the 5 factors of the prediction table. The investigator, Mrs. Glueck, was given information only with regard to these 5 factors (education of parents, intelligence of offender, age at first delinquency, age began work, industrial skill). The object of the study was to find out in how many of these 200 cases it would have been possible, without any additional information, merely by applying the prediction table to foresee and predict that they would cause trouble in the Army. The result was that 47.5% of the men had only a 3 in 10 chance of becoming successful soldiers and another 37% had a chance of 81 in 10, whereas 10% had a 50:50 chance. In other words nearly 85% of them might reasonably have been rejected forthwith if the table had been applied. This is, however, an incomplete test since all cases were failures.

I.51 Another attempt to validate some of the Glucck tables was made by the staff of the Hawthorne-Cedar Knolls School at Hawthorne, New York. (61) This school, which is maintained by the Jewish Board of Guardians for children with behaviour disorders and personality problems, provides a combination of the usual environmental techniques with the services of a fully equipped psychiatric clinic. The tables used for the study were taken from "One Thousand Juvenile Delinquents" and from "Unraveling Juvenile Delinquency" (only the Social Prediction Table was used). After a pilot study of 50 boys committed to Hawthorne in 1982-5, the tables were applied to a group of 100 boys admitted as delinquents between 1940 and 1942. These boys differed in many respects from the boys in "One Thousand Juvenile Delinquents". As these differences, however, did not, or only slightly, refer to any of the 6 factors used for the construction of the prediction table, they were, in particular in the light of previous experience, regarded as immaterial. The application of the earlier Glueck table showed the following results: 64 of 100 boys had 92-6 out of 100 chances of recidivism, 19 had 83.1 chances, 9 had 67 and 8 had 50 chances. The application of the table from "Unraveling Juvenile Delinquency" had only slightly more favourable results. Actually, the follow-up of the 100 boys made in 1950 showed that many more, namely 70 of them, had been successes, and the explanation of the considerable difference between prognosis and real outcome was found in the intensive psychotherapy provided at Hawthorne.

1.52 Richard E. Thompson tried to validate the Glueck Social Prediction Table, published in "Unraveling Juvenile Delinquency", by applying it to some of the case material of the Cambridge-Somerville Youth Study (66) A sample of 100 boys, pre-delinquents and others, was selected for whom sufficient information was available in the files on all 5 factors used for the construction of the Glueck Social Prediction Table, i.e. discipline of boy by father, supervision of boy by mother, affection of father for boy, affection of mother for boy, cohesiveness of family. These 100 cases were then scored by Dr. Eleanor T. Glucck, who was given no other information than that relating to the 5 predictive factors. When her prognoses were compared with those of the three members of the Selection Committee (see above) it

was found that, whereas the latter had made accurate predictions in 0.13 do 56.9%, Mis Glucke had been correct in 91%. There was a difference to accuracy between the prediction for those boys who became delinquents and 18 were accurately predicted by the Selection Committee and by Mrs. Glucketh 18 were accurately predicted by the Selection Committee and by Mrs. Glucketh 18 were accurately predicted by the Selection of Committee and by Mrs. Glucketh, that only 18.9% to Selection Committee and by Mrs. Glucketh, but not yield the Selection of Committee and by Mrs. Glucketh, but not yield a selection of the Committee. 1.30 The author streams that the Glucké Social Prediction Table can be write regardless of racial origin, includence and social status,

## PART II

## EUROPEAN PREDICTION STUDIES

I.54 Prediction research in Germany was initiated by the late Professor Franz Exner of the University of Munich as a fruit of his visit to the United States some years after the publication of the first Glueck studies.(66) One of his students, Robert Schiedt,(67) examined in 1935 the records of an unselected sample of 500 offenders discharged from Bavarian prisons in 1981, The prognoses made for these men by the prison doctors on discharge had been favourable in 38%, unfavourable in 29% and doubtful in 88%. Four years later it was found by Schiedt that the favourable prognoses were wrong in 26% and the unfavourable prognoses in 28%. Not considering the cases, numbering one-third of the total, in which the doctors had been unable to express any definite views, their prognoses had been mistaken in 26.5%, a proportion which was regarded as unduly high in view of the detailed examinations of prisoners by the crimino-biological service established in German prisons. When Schiedt made a statistical analysis of a number of characteristics of these 500 ex-prisoners he found that individuals showing one of the following 15 factors had a rate of recidivism considerably above the average of 49%: 1, bad heredity; 2, serious criminality of ascendants; 3, unfavourable educational conditions; 4. bad scholastic attainment and school conduct; 5. premature breaking off of an apprenticeship; 6. irregular working habits; 7. beginning of criminal activities before the age of eighteen; 8. more than four previous convictions; 9. particularly short intervals between discharge from a penal institution and subsequent conviction; 10. criminality extending over the areas of several district courts; 11. psychopathy; 12. drunken habits; 13. bad general conduct in prison; 14. discharge from prison before the age of 36: 15, had social and family conditions after discharge.

L55 In accordance with the Burges technique, Schiedt allotted to each case or "had point" for each of these 15 factors. Offenders with all to 8 had points be reparded as "corrigible", those with 10 or more as "incorrigible", and those with 4 to 9 as "doubtful". Of 131 corrigibles, only 16 = 12-9%, were failures, whereas of 388 doubtful ones 52-9%, and of 8 incertigibles. "See 98-98", failed. For some of the factors, i.e. 9, 10 and 15, the percentage of reddivism exceeded 80 or even 90%, against the general rate of recidivism of 29% for the whole sample.

1.56 Schiedt's point system was criticised by Trunk and Gerecke. Trunk (68) applied it in 1987 to a sample of 100 convicts with sentences of not more than

8 years, discharged from the prison at Straubing, Bavania, not later than at the end of the year 1982, and for whom he had made prognoses before discharge in his capacity as the prison medical officer. He had regarded 86 of the prisoners as correlpide, 46 as incorrelpide, and 17 as doubtful, and we can be a supposed by the prognose years only 21% of them would have been conceiling the prognose years only 21% of them would have been correctly predicted. His criticisms of Solitoids's system are in part concerned with technical details such as definitions and overlapping of factors, in particular till and 12; with the absence of any weighting of factors; and with the high rate, 57%, of "doubtful" cases. It part, however, his objections are directly and the such as the prison of the contraction of the prison of the contraction of the contraction of the prison of the contraction of the contraction

1.27 Gerecke, <sup>(60)</sup> who also criticised the absence of any weighting of factors, tried to improve the point system by substituting different factors for some of those used by Schiedt; by attaching different point values to the factors (e.g., age of first conviction; point value 9; bed environment: point value 9); and by multiplying each point value by 1 to 4 according to the intensity of the factor in a midwidual case.

the factor in an individual case.

I.58 On the other hand, Schiedt's table was successfully applied to dif-

1.58 the other made, sometimes was necessarily spines to dislice Mayers. 10% as head of the Crimino-biological Service at Hamburg, applied it in 1088 to a sample of 200 prisoner examined by that Service between 1098 and 1988. He found that the favourable prognoses made by the Service had been wrong in 01:0%, and the unfavourable prognoses in 46.7% to of the cases. According to the point system, however, only 11:4%, of the of both techniques, the point system and the "intuitive" technique applied by the Service, the percentage of "doubtful" prognoses was unduly high, namely 64-4%, and 69% respectively. He showed, however, that Schied's exceptory of doubtful cases, which included all those with from 4 to 0 be adoption, was unnecessarily wide and coald be reduced to a contegory including Schiedt's 15 factors. 10 o 7 bed points. He was the critical of some of

Someours 15 records.

160 Schwardshirp applied Schiedt's table to a sample of 400 recidivist offenders guilty of offences against property. Omitting Schiedt's factor 2 (serious criminality of ascendants), for which no adequate information was available, he found that none of the offenders possessing no had points had become failure, whereas all those with 14 to 40 points had failed.

I.O. Kohnle, für examined in 1968 the files of 299 boys discharged from 67% has the files of 290 boys discharged from 67% had subsequently been convicted. His object was also to apply and, file opposible, wailades Schiedr's table. In view of the iower age of his sease and of gaps in the files, however, he had to modify or to omit some of Subidict's factors, but a number of the remaining factors proved to be of predictive.

value.
162 In the third past of his recent book "Dar Freibrinstella Rüdefplace undreader" "I'd or "Criminalité Précase a Récidiosne", the Swiss crimino-mobile par le la recommendation of the Recidiosne "I'd or "Criminalité Précase a Récidiosne", the Swiss crimino-mobile paramets to the most determined criticisies of the American prediction studies. At the same time, he has presented an elaborate prognosite commendation of the Recidiosne production studies for a published suffer in his view

from the following weaknessess: their data are inadequate for the vital period of early childhood and in particular with regard to biological and hereditary factors. As psychiatric reports are likewise missing for the majority of cases, there is inevitably, he thinks, an undue emphasis on social factors, and all this together has produced a distorted picture. Overcomplicated statistical techniques take the place of comprehensive and reliable information about the all-round development and structure of the human personality as a whole. Dr. Frey rejects the idea that a correct prognosis can be made by using, instead of a logically and criminologically coherent and integrated picture of the development of the total personality, a small number of isolated and in no way interrelated factors. In view of the attempts made by the Gluecks in "Unraveling Juvenile Delinquency" to establish prediction tables for very young children, he stresses that no reliable prognosis is possible before the age of 16. The German studies referred to above are regarded by Dr. Frey as superior to their American models in view of the more thorough examination of individual offenders carried out by the German Criminological Service; they, too, are inadequate, however, with regard to early childhood. He favours the suggestion made by Gerecke (above) to differentiate the various factors by attaching to them different point values and to multiply the point values according to the intensity of the factor concerned in an individual case.

I.68 Dr. Frev's own scheme is essentially a combination of an assessment of the personality as a whole (Ganzheitsbewertung), on the lines of intuitive prognosis, and of the usual point system modified by differentiations and multiplications similar to Gerecke's suggestions. Two different forms of prediction are worked out: the one, of a preliminary nature (Vorprognose), to be prepared during the preliminary proceedings for offenders between 16 and 18; and the second, more definitive prognosis (Nachprognose), adding to it information concerning the institutional and post-institutional periods of the offender's life and prepared not before the age of 24 has been reached and at least 8 years have elapsed after discharge. Dr. Frey's prognostic table contains concise extracts of the contents of the files, arranged in 8, for the Nachprognose in 10, main sections, most of which are divided into several subsections or factors. To these extracts a statistical assessment is given according to a point system. The factors, or groups of factors, are of a fairly general nature (e.g. "personality type", "home milieu", "educational difficulties"), and their weight is assessed by the author in accordance with his views on their criminogenic significance, e.g. the factor "leisure milieu" receives a value (Basispunktuert) of only 5, early criminality, however, one of 35. The intensity which each factor shows in an individual case is measured

35. The intensity which each factor shows in an individual case is measured by coefficients ranging from 1 to 8, a highly criminogenic from of psychopathy, for example, receiving the oscillerent of 4.5, a simple case of mental deficiency, for example, receiving the oscillerent of 4.5, a simple case of mental deficiency construction of the cauthor without using the table achieved only 14.6%, of courses, On the other hand, the author admits the presence of strong scarmery. On the other hand, the author admits the presence of strong scarmery.

securacy. On the other hand, the author admits the presence of strong intuitive elements in his application of the table.

164 In a monograph entitled "Palantapasiaus Yksilo Sopeutuments musulen Oirean" (Didinquency as a Symptom of Later Social Maladjustment), 70 Dr. Erkik Saari, the Director of the Observation and Classification Centre at the Javrilians State Reformatory in Finalend, presents the results of

a follow-up study of 465 boys referred to the Centre in the years between 1921 and 1927. From the English summary the following data may be quoted: The average follow-up period was 15 years and 5 months, and the average age of the sample was 16 years and 10 months on leaving the Reformatory and 34 years and 2 months at the end of the follow-up period. The information given in the official records was supplemented by personal interview with each boy, his relatives, neighbours and local officials. It was found that within the follow-up period 51-8% of the ex-Reformatory boys had had no further convictions, 17-6% had become habitual criminals and the rest occasional offenders. About 80% had attained a fairly independent economic status. For purposes of research, the whole group was divided into those who had become recidivists, once-convicted and non-delinquents, and the correlations were worked out (Pearson's coefficient of contingency) between 21 background factors and subsequent criminal history. No marked correlations were found between any single of these factors and success or failure; in fact the highest correlation was 21 (for a factor called "Number of abnormalities in environmental conditions"). Special care, he says, was taken "to eliminate spurious correlations". The correlations obtained were further checked by subdividing the recidivist group into two sub-groups, according to the frequency of reconvictions, in order to ascertain whether this would make the originally observed trends even more definite. Eventually, only 8 factors were regarded as showing clear correlations with the criterion, i.e. intelligence level, length of time in Reformatory and elementary schooling in the Institution. For a few other factors correlations were obtained similar to those

given by the Gluecks in "One Thousand Juvenile Delinquents". I.65 In a study of juvenile delinquency at Cambridge, England, one of the present authors presented some figures to show that there was "a fairly close correlation between the pre-probation history of the boys as expressed in bad points and their subsequent conduct", and that "from the case histories available to the Cambridge Juvenile Court an approximate forecast was possible as to the likely outcome of probation".(75) Using a scheme of bad and good points, it was found that of a group of boys who had been successful on probation 65-9% had either no bad points or not more than 10 out of a possible maximum of 86 bad points. On the other band, of boys who became recidivists only 40%, and of boys who became persistent offenders only 18.2%, were in these two categories. It was stressed in that study, however, that in view of the small numbers of cases and for other reasons the construction of prediction tables had not been feasible.

1.66 In spite of the great variety of predictive techniques employed by different workers, this survey has also shown a considerable degree of uniformity of results. It cannot reasonably be expected, of course, that the same factors will invariably bave the same predictive value regardless of time and place, of the age and other characteristics of the case material concerned. Moreover, even slight variations in the definition of an item may produce important differences in the results. To give but a few illustrations. Whereas according to Burgess and Tibbitts "emotional instability" is a favourable predictive category, other investigators, in particular the Gluecks, report a very high positive correlation between "mental distortion" or "marked adolescent instability" and recidivism. The "lone wolf" has a high violation rate in the Burgess and Tibbitts studies, whereas the Gluecks have found a

significant positive correlation between gang membership and failure. On

the other hand, there is a fair amount of agreement with regard to such factors as work record, frequency of previous convictions, disciplinary record in penal and reformatory institutions. The seriousness of the offence for which he offence in all been committed to the institution is generally regarded as of the offence in the contract of the institution is generally regarded as of the offence in the contract of the contract

In view of the fact that a number of prediction tables (or, better, "caperience tables") are already validable, in particular in the United States, it may be pertinent to enquire whether any practical use has been made of them. The answer is dissipantining. The Illinois Division of Correction which, for the past 20 years, has been using the table described by Ohlin (see above L39) seems to have found on successor sey t. There is not only in the various Clueck studies no indication of any official acceptance of their tables, but the same is also true of more recent American publications, 70°

It can hardly be maintained that this lack of success in the field of the punctical administration of criminal justice has been due to any exagency prediction research to far published it has been stressed, firstly, the applicability of experience tables to actual cases was dependent on their previous validation; and, secondly, that these tables were intended merch supplement, but in no way to replace, the individual discretion and judgment of Courts, Parole Boards and prenal administrators.

Interpreted in this limited sense, as a servant rather than as the master, the use of experience tables has been suggested mainly for the following purposes: to assist

- (a) Criminal Courts in their choice between the various methods of disposal, which, of course, presupposes the existence of tables capable of adequately discriminating between the latter;
   (b) Prison and probation officers in adapting their treatment to the
- specific needs of the individual offender as indicated by the tables; (c) Parole Boards and corresponding agencies in fixing the length of indeterminate sentences and in selecting the most effective form of

How far experience tables are capable of giving such assistance cannot be judged unless they are actually applied to suitably selected experimental groups of offenders.

### SUMMARY OF CHAPTER I

S.1.1 A survey has been made of the principal prediction studies published in the past 80 years in the United States and Europe. Most of them are concerned with male parolees, only a few with exprehabilities and with women. Considerable progress has been made in the development of prediction techniques, due mainly to growing experience and further refinements in statistical method. Two techniques, each of them with numerous variants, dominate method. Two techniques, each of them with numerous variants, dominate with the control of the contr

devoted by various research workers to the following problems: how to avoid the use of overlapping factors and of subjective factors; how to reduce the cite of the middle extegory of "doubtful" cases on which no statistical prognosis can he made; the need for individual interviews to supplement the information obtained from official files; and the length of the follow-up period required.

S.I.2 Although the work of the past 30 years has brought some of these problems nearer to their solution and has narrowed the area of controversy it cannot be claimed that unanimity has everywhere been reached. The now prevailing view favours, for example, prediction tables hased on a few factors only (the Gluecks, Ohlin, Reiss and others), hut there are still dissentients such as Burgess and Frey; it favours the avoidance of subjective factors, but they have been used by Burgess, Tibhits, Ohlin, Reiss and Frey; it accepts the desirability of supplementary individual interviews, but important practical schemes such as the prediction procedure adopted by the State of Illinois have had to omit them as too expensive. Even from the almost universally shared experience that most relapses occur during the first months after discharge there is one exception reported by Vold. No effective way has been shown in previous studies of how to reduce the excessive size of the "doubtful" middle group and of how, without impairing the reliability of the tables, to make use of subjective factors so as to avoid the recent criticism by Burgess and Sellin that statistical prediction has so far heen dealing only with the "external aspects of hehaviour". Nor has the controversy hetween statistical and intuitive individual prediction heen completely silenced, especially as the latter has occasionally produced results not greatly inferior to those of statistical prediction (e.g. in the Camhridge-Somerville Study).

Somerville Study).

S.1.8 Although validation studies, very rare in the initial stages of prediction research, are, in particular through the persistent efforts of the Gluceks, becoming more frequent, it cannot he said that a perfect validation of any of the existinc tables has so far heen achieved.

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where the need for the construction and rapplication of prediction tables is streamed, but no reference is much to any present use. Castel # C. Moyer, in "A Rid-Custory of Probation and Panel" (The Journal of Cimitani Law, Criminology and Castery of Probation and Panel" (The Journal of Cimitani Law, Criminology and and panel of the Committee of the Committee of Committee of the Committee of the low much they are actually being used. In "Correctional Research", Falletin Nor. Limanary 1863 (positioned by the United Prison Association of Massachustra, Nor. Limanary 1864 (positioned or Committee Prison Association of Massachustra, and Nor. Limanary 1864 (positioned or Committee Prison Association of Massachustra, and Nor. Limanary 1864 (positioned or Committee Prison Association of Prison Committee of Nor. Limanary 1864 (positioned or Committee Prison Association of Prison Committee of Prison Com

After this had gone to Fress, we have been informed by Professor Norman S. Hyper of the University of Washington, Seattle, that the State of Washington Board of Prion Terms and Paroles, of which be is a member, bas for the past few years been using prediction techniques in an experimental way and that it is hoped to use them in the near triture as a matter of routine.

## CHAPTER II

# The English Borstal System in 1946-7

II.1 In this Report, the history and main features of the English Borstal system are taken as generally known, and the following remarks will, therefore, be confined to those aspects which are of a direct significance for the understanding of the background of the present study. Special attention will be paid to conditions prevailing during and immediately after the war and at the time when the lads concerned were passing through one of the Reception Centres and Training Institutions. Our summary is based mainly on the data given in the Annual Reports of the Prison Commissioners and in their namphlet "Prisons and Borstals", on additional information on some specific points, supplied by them at our request, and also on our personal knowledge of the system. Reference should also be made to private publications such as Mr. L. W. Fox's book, "The English Prison and Borstal Systems" (1952): to William Healy and Benedict S. Alper, "Criminal Youth and the Borstal System" (New York, The Commonwealth Fund, 1941); to Miss Margery Fry, "The Borstal System" (Chapter IX of "Penal Reform in England, English Studies in Criminal Science", Second Edition, 1946), and to an unpublished thesis by Mr. A. G. Rose, "Borstal Boys and the Borstal System" (1951), made accessible to us through the courtesy of the author.\* II.2 As our investigation is limited to lads, the female side of the system will

II.2 As our investigation is limited to lads, the ternale side of the system was not be considered.
II.3 At the authorsk of the Second World War, nine Institutions we

II.3 At the outbreak of the Second World War, nine Institutions were available for lads: (1)

## (These five Institutions are of the so-called closed type.)

Borstal, Rochester, Kent: built as a prison, "the original Borstal, with three 'cellular' houses, one dormitory house and one more modern hut house, accommodation for 320";

Fellham, Middlesen: "an old Reformatory School, taken over as a Borstal Institution in 1911, four dormitory houses, one 'cellular' house,

Borstal Institution in 1911, four dormitory houses, one 'cellular' house, accommodation for 350";

Portland, Dorset: "a former convict prison, converted and adapted for use as a Borstal Institution; opened as such in 1921, four houses, 'cellular'

bedrooms, no dormitories, the fifth house was badly bombed in 1940, accommodation for 320°; Comp Hill, Riele of Wight: "originally built as a Preventive Detention Prison; taken over as a Borstal, 1932-0, and again in 1946; two large houses (70 each) and four smaller (45 each) all 'cellular'; accommodation

houses (70 each) and four smaller (45 each), all 'cellular'; accommodation for 820";

Sherwood, Nottingham: "formerly the Nottingham (or Bagthorpe) Local

Prison; a 'cellular' block, with hutted association rooms added; accommodation for 160";

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# (These four Institutions are of the so-called open type.)

Lowdham Grange, Nottinghamshire: "a large Institution built to our own design by the boys themselves, started in 1930, the houses are not unlike residential school houses with association rooms downstairs and dormitories upstairs; accommodation 240";

North Sea Camp, nr. Freiston, Boston, Lincolnshire: "a hutted camp on the edge of the Wash, 7 miles from Boston; its original function was to

reclaim land from the sea; accommodation for 180":

Hollesley Bay, Woodbridge, Suffolk: "a large estate taken over from the L.C.C. with nearly 1400 acres of fruit and general farm land; three widely scnarated hutted camps and the original colony building form 'houses';

accommodation for 820": Usk, Monmouthshire: "a small county prison in use to house the boys on their first arrival whence they pass to a hutted camp at Prescoed, 8 miles

away; accommodation for 150".

II.4 In addition, there were the Reception Centre at Wormwood Scrubs Prison and the Revocation Centre at Wandsworth Prison, both in London. The total number of lads detained was over 2100.

II.5 The changes necessitated by the war and described in the Annual Reports of the Prison Commissioners and in the section on England and Wales in "The Effects of the War on Criminality", published by the International Penal and Penitentiary Commission (1951), may be summarised as follows: II.6 Institutions: Some of the existing Institutions, notably Lowdham Grange and Camp Hill, had temporarily to be cleared of Borstal boys and used for the reception of prisoners. Usk was handed over to the military authorities. A large part of Rochester was taken over by the Admiralty, and some of the buildings at Portland were destroyed by bombs. Feltham, which remained a Borstal, became in addition the prison for young prisoners from London and also the Borstal Reception Centre.

II.7 Inmates and staff: It had been decided before the war that, in order to reduce the population and to facilitate their recruitment by the Services, all Borstal inmates who had served not less than 6 months should be released forthwith on licence. This meant the immediate discharge of 1568 lads, i.e. approximately two-thirds of the total. Altogether, 2005 lads were discharged between September and December 1989, as against 919 in the whole year 1988. As the Commissioners wrote, "those released were the seniors in the institutions and with them there disappeared overnight all the carefully built-up tradition of 80 years. Those left behind had not had time to absorb it, and with no seniors to set the tone it was idle to expect stability and cooperation from beginners fresh from the Courts against a national background of excitement, dislocation and stress."(2) Moreover, nearly one half of the housemasters and many disciplinary officers joined the Forces.

II.8 Soon, however, there began a steady influx of new committals, amounting to about 1800 to 1500 annually during the war years, and the resulting pressure on accommodation and staff made a substantial reduction in the average period of training inevitable. Fortunately, the Institutions the use of which had been temporarily lost were recovered in 1940 and 1941, and training, though with a smaller and less experienced staff, could be resumed on traditional lines. The average period of detention rose again from its lowest level of 10-1 months in 1940 to 15-7 months in 1944.

II.9 Even so, the coming of peace did not result in an immediate return to normal conditions. In the words of the Commissioners, "in the summer of 1945 the pressure of increased population on a seriously diminished and overstrained staff had strained the machine almost to breaking point. In 1946 the administrative difficulties were perhaps even greater, since on the basis of this wholly inadequate number of experienced officers, which with the end of the war was diminishing even more rapidly through retirements, it was necessary to build up a very large new staff at the same time as the even greater increase in population was adding to the pressure in existing establishments and forcing the opening of numerous additions."(3) Nevertheless, towards the end of the year 1946, the return of housemasters and officers from the Forces and the opening of the new Institutions at Gaynes Hall, Huntercombe and Hewell Grange and the reopening of the former Borstal at Camp Hill made it possible to cope with a rapid rise of population from some 1880 in 1945 to over 3100 in August 1946, and "there was no pressure to discharge any individual before he was considered to be ready".(4) Thanks to

could be removed from the local prisons, where they had been arrested and kept for trial, to a Reception Centre within a few days after commital. For the beginning of the period relevant to the present enquiry the system presented the following picture: ©:

II.10 The existing twelve Training Institutions were divided into open and closed and also into Institutions for mature and for immature types of lads:

the establishment of a second Reception Centre at Latchmere House, lads

- CLOSED: (1) mainly for mature lads: Sherwood, Portland, Borstal (the latter with a temporary admixture of some young and immature lads).
  - (2) mainly for immature lads: Feltham, Camp Hill.
- II. OPEN: (1) mainly for mature lads: North Sea Camp, Huntercombe, Usk.
  - (2) mainly for immature lads: Lowdham Grange, Hollesley Bay, Gaynes Hall, Hewell Grange.

In addition there was Gringley Camp, a satellite of Sherwood.

II.11 It will be seen that the new Institutions were all of the open type. The following data, supplied by the Commissioners, may throw some further light on the characteristic features of the various Institutions and their immates at the time in question:

#### CLOSED

#### 1. MAINLY IMMATURE

80

Camp Hill: young ex-Approved School lads and likely absconders from open conditions; reopened in October 1946, with 50 "best" selected boys who did very well. On this foundation the subsequent, not so good, population was built up of lads who would previously have been sent to Rochester.

Feltham: subnormal and borderline cases, immature, physically retarded, illiterate and semi-illiterate. The changing over from prison to Borstal conditions in April 1946 presented difficulties in adjustment for staff and lads.

# 2. MOSTLY MATURE

Portland: (a) mature lads with several previous convictions; (b) those convicted of more serious offences; (c) higher age groups with second and third sentences of Bostal detention. The atmosphere was one of rigid discipline, activities controlled, less co-operation on the part of the lads.

Sherwood: mature lads of the "tough", "gangster", "hooligsn" variety; difficult and restless.

### OPEN

 Mainly Emature
 Lowdhom Grange: dull lads, unable to cope with personal problems, more foolish than vicious, atmosphere more of a school than a penal institution.

Hollesley Bay: young, immature in criminal experience, but at the same time lads of potential self-reliance.

time lads of potential self-reliance.

Gaynes Hall: good type of lad, intelligent and physically fit, with few previous convictions; pioneer spirit, staff and lads working as a team

when the Institution was being built up.

Howell Grange: better type lad, good enthusiastic pioneering spirit.

#### 2. MOSTLY MATURE

North Sea Camp: physically strong, but intelligence below average; general restlessness, resulting in high rate of absconding, arising from deliberate policy of making lads soldier on chores and rough labour

before advancement to regular training.

Huntercombe: fairly mature type; no trades taught, lads fully employed adapting the place from a wartime camp to an open Borstal.

Usic fairly good type; attitude good in the main, but the severe winter made things difficult for transport between camp and Institution.

II.19 In addition to age, physique, intelligence and maturity, criminal history and tendency to abscond, a number of other factors were taken into account for the allocation of lads, such as the vocational and medical facilities available, proximity of the lad's home, membership of a gang which had to be divided, and others.

II.18 The average time served was at

Camp Hill: 20 months Borstal and Feltham: 19 months

Portland: 18½ months

Lowdham Grange and Hollesley Bay: 17½ months

Gaynes Hall: 17 months

Sherwood: 15 months Huntercombe: 14-15 months

North Sea Camp: 18 months, after March 1947 extended to 18 months
Usk: 11-12 months.

II.14 Within these averages there was, however, considerable elasticity within the individual Institutions, ranging for one of them from an earliest discharge in 9 months to a latest in 2 years and 8 months, (6) II.15 The following trades were taught at these Institutions.

Borstal: Carpentry, bricklaying, farmwork, painting and decorating, shoe repairing.

PREDICTION ALTHOUGH IN BUSINESS

Camp Hill: Tinsmithing. Feltham: Carpentry, sawmill, fitters, farm, market gardens, painting, bricklaving, shoemakers.

Gaynes Hall: At first general labouring setting the estate in order, etc.

Towards end of period, bricklaying, painting and decorating, saddlery

Towards end of period, bricklaying, painting and decorating, saddlery and harness making had been started.

and harness making had been started.

Lowdham Grange: Bricklaying, painting and decorating, carpentry, wood machine work, farming, elementary cooking.

machine work, farming, elementary cooking.

Hollesley Bay Colony: Farming, gardening with horticulture, nursery

and greenhouse sections, painting, bricklaying, shoe repairing.

Huntercombe: No trades taught. All fully employed adapting the place from a wartime camp to an open Borstal. Hewell Grange: No trade stught.

North Sea Camp: Marsh reclamation and farming.

Sherwood: Carpentry, woodworking, machining, shoemaking and

Sherwood: Carpentry, woodworking, machining, shoemaking sha repairs, bricklaying and painting, decorating. Portland: Carpentry, engineering fitting, blacksmith, painting and

decorating, tailoring, shoe repairing, cooking, farming, laundry.

Usk: No trades taught. Cookery course, but farming was a major occupation.

II.16 An important development in this field was the increased emphasis on training as against exclusive "production" in the workshops and on the farms. A considerable number of Yocational Training Classes were started during the year, based on the Ministry of Labour and National Service syllabus for the trade, "or and in the Report for 1947 a considerable further excansion of the scheme is noted."

expansion of the science is notice.

II.17 The rates of failure, i.e. the percentage of lads reconvicted within 7 years of the beginning of the year of discharge, or where less than 7 years have clapsed, up to the end of the year 1982, are as follows (bearing in mind that, as the table shows, slightly less than half of 'the failures were reconvicted

once only): Reconvicted Reconvicted twice or more once only % 1987 . 20.4 28.4 1988 . 18-7 18-5 1989 . 19-8 (Jan.-Aug.) 22.4 1939 . 21.9 (Aug.-Dec.) 24.6 1940 . 21.6 80.5 1941 . 20-9 28.8 1942 . 21.4 26.8 1948 . 22.8 34-9 1944 . 25.0 88.7 1945 . 22.1 85.7 1946 . 25.4 87.0 1947 . 25.2 88.5 1948 . 25.8 94-1 1949 . 29.7 20.6 1950 . 28-4 \_\_

24.0

28.6

II.18 It will be noted that the lowest rate of rescens refers to last six-naged in 1946, i.e. in the year when the first of the lads covered in the present investigation entered the Institutions. Although there was some improvement in authorizent years, this was still a period when, in the words of the most of the present in the present years and the still not recovered from the sudden expansion of the post-war years and the still not recovered from the sudden capanion of the post-war years and the still not recovered from the sudden that between November 1948 and August 1946 the Bonstal population of the present the sudden that between November 1948 and August 1946 the Bonstal population of 1860 in 1944 to 1916 in 184 1909 and that committain had gone up from 1886 in 1944 to 1916 in 1840 to 1940 to 1840 in 1840 to 1940 in 1840 to 1840 in 1840 to 184

note that nearly 50% of the discharges were drafted to the Services in 1946, and the view is expressed in the Annual Report for that year that "no doubt a comparison of results would show the ex-Borstal Serviceman in a more favourable light than his ex-Borstal civilian contemporary.(10a) This may be partly accounted for by the superiority in physique and mentality of those who pass as Grade I or Grade II categories into Service training units, but there is another and even more important factor to be remembered. A large proportion of Borstal's population comes from unsatisfactory homes. . . . To such, the Army offers the security of a training period away from the old environment and an opportunity to gain self-respect and a 'character' which on demobilisation, can be produced openly at any Labour Exchange or shown to any employer."(11) It is also stated in the same Report that while the problem of employment was not too difficult during the period. except for those mentally or physically seriously handicapped, it was far from easy to find accommodation for the homeless ex-Borstal lad. In view of the new training courses initiated in 1946 a further improvement of the employment position was expected. Regular visits from members of the staff of the Borstal Association (12) to all Training Institutions served to establish early contacts with the lads, but attention was drawn to the fact that the staff of the Association had not been increased since 1939, although its work had more than doubled

#### SUMMARY OF CHAPTER TWO

S.II.1 In this chapter the Borstal system for lads is briefly described as it was after the war and in particular at the time when the lads whose files form the material of the present investigation were passing through the Reception Centres and Table 1. The present investigation were passing through the Reception.

Centres and Training Institutions.
Attention is drawn to the difficulties created by the war and to some extent
persistent during the first post-war years, such as the sudden discharge of the
anjority of the fast as the outbrack of hortilities, the closing and hombing of
Institutions, the enlistment of many officers, and the rapid increase in population after the war. A list of the Institutions then existing is given, and their

# characteristics and their places in the classification system are described. REFERENCES TO CHAPTER II

Details taken from the Annual Report of the Prison Commissioners for 1946, pp. 52 et seq.
 Annual Report for the years 1939-41 (1946), p. 50.

### PREDICTION METHODS IN BORSTAL TRAINING

- 34 (3) Annual Report for the year 1946, pp. 8-9.
- (4) Annual Report for the year 1946, p. 51. (5) ibidem, p. 55. See also H. Mannheim and John C. Spencer, "Problems of Classification in the English Penal and Reformatory Systems" (I.S.T.D. Publication), 1949, pp. 13 et sea.
- (6) Annual Report for the year 1947, p. 58. (7) Annual Report for the year 1946, p. 51.
- (8) Annual Report for the year 1947, p. 55. (9) Annual Report for the year 1951, p. 75.
- (10) Annual Report for the year 1946, p. 51.
- (10a) As will be seen in our Chapter V, our own findings agree with this in general, but show that there are interactions due to other factors.
- (11) Annual Report for the year 1946, p. 56. (12) The Borstal Association, now the Borstal Division of the Central After-Care Association, is the body responsible for the supervision and after-care of Borstal lads during their period of licence after discharge. Borstal lads are on licence until the expiration of 4 years from the date of their sentences.

#### CHAPTER III

# The Basic Ideas Underlying the Project and its Purposes

III.1 It will be clear from our chapter on the history of criminological prediction that statistical methods have played an important part in the past. The present project is no exception. It is, however, our aim to present our material and findings in such a way that all the essential features may be clear to those with no special training in statistics. Before we discuss the results or even the purposes of this study we must, therefore, attempt to state in simple terms the possibilities of the statistical methods we have used, We must also say something about the ideas underlying the statistical theory and show how closely these relate to familiar concepts. In doing this we may have to offend those who would require a purist approach, since we shall have to use terms which have both a special technical and a general meaning. We shall attempt to become more precise in the use of terms as the explanatory and descriptive discussion develops. For example, we have adopted the conventional term of "prediction" tables where we would have preferred to distinguish between "experience" tables and the use of experience tables for prediction purposes, whilst these terms are also capable of some improvement.

# PART I

## BASIC IDEAS

THE ORIGINAL ASSUMPTIONS

III.2 The starting point for our design was simple enough. We had only

the following information and objective:

(a) Some lads return to crime after Borstal Training, some do not.

(a) Some lads return to crime after Borstal Training, some do not.(b) The majority who return to crime do so within a short period from

release.

(c) Recorded in Borstal files and in other places were data regarding the past criminal career and certain other facts which were considered to

be of use in deciding treatment and other administrative actions regarding each case.

III.3 We were required to decide how best the information available [c], might be used to indicate likelihood of success or failure (a). Since the period of testing for each lad could not be too long, we invoked (b). We made no selection of the data but used every time which was available in the file in a form which could be used. Some derived data were also used, but no hypotheses were formed before the project began. At times we depart to make the project began At times we depart to the above objective in mind to illustrate uses of the schutton derived. These illustrations are not essential features of the design.

III.4 We could not collect from primary sources any of our own data for this project. This fact is at once the strength and a limitation of this study.

The strength lies in that the results we derive are reproducible by others and no features of our results are due to our own skills or lack of skills in dealing with cases. The limitation is in that some more data might have resulted in better prediction.

THE CASE STUDY AND THE STATISTICAL METHOD

III.5 Perhaps the most similar study in the past to the project we report is the research of Sheldon and Eleanor Glucck(1) (to which we have already made reference in our first chapter) reported in their hook "500 Criminal Careers". As they show in this work they were able to classify delinquents according to their probability of making good or of becoming recidivists. The Gluecks were, like others before and after them, able to show that offenders from some types of hackgrounds and with certain characteristics tended far more often than others to return to crime. Not that any one offender could be said to he sure to he apprehended again, but that offenders with certain characteristics would be found more often amongst those who were committed for a further term of imprisonment than others. They also attempted to add together those characteristics which were associated with

poorer risks so that a "score" was obtained. III.6 It is the concept of probability of failure associated both with carlier "prediction" studies and the present project which those unfamiliar with statistics may find difficult to appreciate. They may feel deeply concerned that because a particular case falls into a poor risk category some action may be taken which, although correct for the group to which the case helonged, may he wrong for him. They will argue that if the group consists of lads with 10% chance of success, the prognosis will he "wrong" in 1 in every 10 cases. This idea is very real to those whose life is devoted to the welfare of individuals and we must make some attempt to resolve this difficulty.

III.7 Suppose the statistical methods of this study provide a class of Borstal hovs where the likelihood of success is 7 out of every 8. (This is, in fact, the case as will later he shown.) Suppose also that 8 cases are examined from this category, then one is expected to be a failure. But which one the statisties do not and cannot indicate. If they could, the risk class would no longer be a 7-out-of-8 but a 7-out-of-7 class; 100% correct. Those accustomed to case history methods will be inclined to regard the one failure in every 8 who shows up in the hest risk group as heing "incorrectly classified by the statistics". To a limited extent this attitude may he accepted, and we shall attempt to show when and how this may be so. But the one failure in 8 does not prove the statistics wrong; on the contrary, it proves them

right! III.8 The conflict between the concepts of probability and, to use a term favoured by some philosophers and psychologists, "idiographic" (2) methods suggested in the previous paragraph is more apparent than real. It may arise because social scientists in recent years have turned to statistics to help them to discuss the validity of their data and sometimes to interpret it, but they have usually used statistical methods as tools without regard for the hasic philosophy of statistics. They have thus swallowed without qualms (perhaps without noticing) a large number of philosophical problems of probability. III.9 Let us embark upon what may, perhaps, he a difficult subject to some of our readers by asking how the statistical methods differ from or compare with idiographic (e.g. case history) methods,

#### STATISTICAL METHODS AND EXPERIENCE

III.10 When an individual case is considered the person considering the case has an objective in mind. His consideration is purposeful. To he analogous with the present study this purpose would be the attempt to decide whether the particular case was likely to become a success or failure after Borstal training, using only information available hefore or during such training, Whether this is the only or particular objective does not matter, it is important only to assume that an objective exists. This objective becomes, when translated into the statistical jargon, the "criterion".\* The statistical models can take different criteria in the same way as the person studying a case can do so with different objectives. Let us agree to follow one illustrative "criterion" or objective. The aim is to decide to which of two classes a particular case belongs; whether he is a likely success or a likely failure, It will doubtless be agreed that whether the statistical or any other method of classification is used the likelihood of every lad being correctly allocated by the prognosis is remote. The statistical method, however, expresses the likelihood in terms of numbers, whilst the idiographic methods may make pronouncements like "almost certain to fail", "difficult to assess, may or may not succeed" or "almost certain success". What level of probability is associated with "almost certain" is unknown and it will differ from one assessor to another. It is not in this that the differences in concepts arise, but in the system of interpreting what information the case history provides and how this is done. How does the intuitive assessor go about his task? We may, perhaps, agree that he draws upon his past experience in what he regards as analogous cases. In his mind he considers factors which are in his experience associated with success or failure. He notes whether or not these factors appear in the individual case and he attaches some weight to each, giving good points for some and bad points for others and ending with a qualitative statement at the end of what is in essence a quantitative series of judgments. The statistical methods are exactly similar to this. In the intuitive cases we do not know upon how many cases the judgment is based, nor do we know how representative the experience of any one assessor may he. By the statistical approach we may define exactly the sample which affords the basic experience and can ensure that it is completely representative. Presumably intuitive assessments will be the better the more the experience and the wider the experience of the assessors, but no two assessors can have the same experience upon which to draw. It may not be surprising then that some assessors are better predictors than others. Not only does the basic experience differ between assessors but the weights attached to each item are derived from within the minds of the individual assessors and are not, therefore, reproducible hy others. The weights to be attached to the items from past experience in the statistical approach are determined as the "best" in terms of the experience upon which they are based, and are, of course, reproducible by others.

<sup>\*</sup> This term to indicate the variable or attribute to be predicted, and the term "factors" to indicate the luma used in making the prediction, are preferred to the more usual statistic terms "dependent"; and "independent" and "independent" and "indicate indicate indicate and in a statistic interest the properties of the study to discriminate between two clause.

"We can not concerned here with "descriptive statistics"; "In

III.11 Both the statistical approach and the intuitive are working along the same lines using similar techniques-ohtaining experience and condensing it and then examining other cases and comparing these with the experience and making statements of future outcomes accordingly.

III.12 Perhaps those who are likely to have the best results in treating delinquent hehaviour are those who are able to believe the hest of their cases. If this is so, the good therapist is an optimist and may not, therefore, he the best person for prognosis. The statistical methods are not concerned with therapeutic measures in this study. Each task when dealt with hy the statistics is self-contained and its configuration of coverage may he restricted or extended at will. In the intuitive systems we cannot separate within the mind of the assessor the various aspects of his personality, and his optimism, desirable in one field may be undesirable in another.

III.18 The detailed procedure of the statistics will become clear as we describe the project further in later chapters. In essence we obtained our experience from 700 cases of Borstal hoys. Amongst these basic data we had to have experience of the various criteria which might he used. If we had been required to say anything about different forms of treatment we could not proceed without data relating to the forms of treatment. The data form a configuration of factors and we may not treat them separately. No lad, for example, will have been sent to an Approved School or put on prohation in the past without some events (also in the configuration of data) having led to this result. The statistical methods nut as much of the data as possible together in one configuration and the criterion in another, thus:



III.14 We then find the "hest" way of weighting the items in the first box (matrix) so that we may derive the optimum estimate of the second hox. We have to limit ourselves for various reasons to a result which ends in an addition sum. Ohviously which items from the total experience (data) we write in the criterion column is a matter of choice and we may change this at will. In the single case we are using for this discussion we have limited ourselves to sorting of the "sheep" from the "gosts". If we had experience which defined the degree of "sheepishness" and "goatishness" we could onerate similarly, or we could define the hetter of two forms of treatment or the best of several. We require only that we have sufficient experience for the past results to be unlikely to have arisen by chance and hence unlikely to be of value for prognosis in the future. Having found the "hest" way in which the criterion related to other facts in the past experience, we may proceed to the validation processes.

III.15 Validation is desirable since the criterion experience is (in these sorts

of problems) available at a later date than the remainder of the expesience. We need to test whether time trends are likely to have altered the value of our experience. We have obtained our experience tables, and we need to test these for use as prediction tables. If time trends have not seriously affected our results we may assume that predictions may be made from the experience, provided that we are always alive to the likelihood of time changing the ituation in the future.

III.16 The only real difference between the intuitive method and the

statistical is in the fact that statistics cannot deal with "intangilles". Any tiem which could be elaimed to be definable and communicable could he used in the statistics. The importance of intangibles and the undefinable and incommunicable will be discussed later with some examples.

III.17 The preceding discussion of the statistical methods which may be

used to solve the kind of problems with which we are concerned is completely general and has been made specific only for the purpose of illustration. We must, however, keep to the specific problems and methods of this study and relate the general theory to the prepare the study.

relate the general theory to the present study. III.18 We first needed experience data and required that this should be as recent as possible. The fact that we needed experience of the criterion (suecess/failure) meant that some compromise was necessary. Accordingly, we selected a sample of I in every 3 entrants to Borstal in 1946-7. We defined "success" as the absence of further conviction (other than simple fine) up to 31st August, 1951. This meant that the lads had on average a testing period of 31 years from release from the Institution.\* A total sample of just over 700 cases was available by these methods and within our financial resources. For purposes of the major analyses, the sample was divided into two parts-the successes and the failures. From the resulting data we't were able to give weights to each item of information so that we maximised the number of cases correctly allocated to the two classes. In many eases the weights given to the items were so small as to be insignificantly different from zero. This means that they do not appear in our tables. In fact if the other data are considered these items should not be considered since by so doing the precision of the equation to specify and discriminate the two classes would be diminished.

# DISCRIMINATION AND CLASSIFICATION

III.19 We have said that the main task of this study was to separate the "sheep from the goats" and that each case could be defined as either a sheep (success) or a goat (failure). We need now to show what this process of discrimination involves and discuss how this task might relate to other criteria which allowed of degrees of success or failure. In every-day terms the two-class proficiation implies that any case where the prognosis was "failure" and the lad was in fact a "failure" we may say that the processis was "correct". Similarly, I'a prognosis was "likely failure" and the

<sup>\*</sup> The effect of the follow-up period on the results is discussed in detail in Chapter VI. A fixed date was used for economic reasons. It may be assumed to provide results no edifferent from those which would have been derived from a constant follow-up period. Later we shall separate fixed follow-up periods of less than the maximum duration and show this to be true.

<sup>†</sup> The term "we" is perhaps misleading here. The weights are, in fact, derived by a system of equations which maximise the discriminating power of the data. No subjective judgment enters.

lad was, in fact, a "success", the prognosis might be said to be "wrong". But the estimate of the probability of the lad being a failure might be, say, 51% or 49%. In the former case the prognosis would be "likely failure" since he had more chance of failure than success (1%) whilst in the latter case the 1% difference would mean classification as likely success. The case might be correctly assessed as having slightly more chance of success than of failure, but the prognosis has about equal chances of being either right or wrong. Given, say, 100 cases with a probability of 51% chance of success we should expect 49 cases to be wrongly classified if the estimate of the prohability was correct. This illustrates the principle underlying this form of discriminant analysis. If any individual's chance of success is estimated as greater than 50% he goes to the success side, if less than 50% to the failure side. No other situation is open within this restricted framework of two classes. By this system we shall have the expectation of classifying correctly the greatest number of cases. Only within this restricted model can we use the concept of a prognosis being right or wrong whether the prognosis is made statistically or hy any other means. If, however, we admit of probability or degrees of certainty of prognosis the concept of right or wrong classification has no meaning in this form.

III.20 It is, however, convenient to use the simple two-class system and the ides of a right or wrong prognosis for most of our work. Very much later in this report we shall elaborate on this model. Until then we shall attempt to predict success or failure from factors in the information matrix (data available at committal and data available during training) and test how correct or incorrect the results are against the simple criterion of success or failure. We do this because no other criterion can he unequivocally determined and defined by reference to facts completely outside our control. We cannot so well define such ideas as "partial failure" or "bad failure" and grade cases into more than two classes until much more data have been examined. Any other classification would involve our own interpretation and we might he in danger of feeding back into the data some bias or partial double-counting. Since we may check our results only against the dichotomy success/failure as defined, we must adapt our statistical models accordingly. We feel that it should be a rule that the criterion against which evidence is checked should not involve any judgment by those connected or concerned, however remotely. with the analysis or prognosis. The restricted model results in some loss of information in some hypothetical situations, but we shall show that the simple definite criterion gave results no different from those obtained by more complex criteria. (Chapter VI.)

#### DECISION THEORY

III.21 One further logical step is necessary to make clear our methods and the use to which the results of these kinds of projects may be put. This is merely to introduce the idea of decision theory more precisely than we have done (by indirect inference) so far. The requirement to make a prognosis in the form adopted may he seen as the requirement to make a decision (3) about each and every case-to decide whether the case is a likely failure or a likely success. Like the statistical model it would be possible for individual case methods similarly to adopt the decision approach. This is, in fact, quite often the "real life" model. When an employer is interviewing applicants he can decide only whether or not to engage each applicant. After studying

each case he may feel that he is not at all sure, but he will have to make some assessment of how certain or uncertain he is and make the dichotomous decision accordingly. This is exactly similar to our model of statistical decisions. We predict success where there is any reason to think success more likely than failure, however slight. Suppose that hoth statistical decisions and intuitive decisions were taken on this hasis and subsequently a number of cases were found to be wrongly classified. We might challenge the intuitive assessor who might reply, "I was not too sure about this case, everything seemed to depend on how he fared in his first joh on licence." The statistical counterpart of this reply would he in terms of the expectation of success. Since the intuitive assessor could not predict the type of joh likely to be taken by the lad on discharge, his explanation was redundant; it invoked a further frame of reference which was not included in the design. The statistical model could be extended to the wider frame of reference also. III.22 It will be shown in this report that hy using statistical methods it is possible to classify youths into the two classes before they enter a Borstal far more accurately than is possible by other known means. It is also shown that it is possible to classify lads into more than two risk groups; those with a very good chance of success heing termed Category A and with less chance of success Category B, whilst those with a high chance of failing are termed D and those with less chance of failure Category C. In group A there was 1 failure in every 8 cases and in Category D only 1 success in every 8, whilst for the other groups the chance of success was 2 out of 8 (B) and of failure 2 out of 8 (C).

# THE PURPOSES AND USES OF THIS RESEARCH

III.23 These concise statements of purpose need linking with the conceptual models. In order to illustrate this we have noted a number of questions raised by students at a Criminology Seminar of the London School of Economics, where the use of statistical experience tables was discussed.\* Upon these questions, which may arise in other minds also, we have some further exmedition.

# PART II

PURPOSES AND USES

CHANCE AND CHOICE

III.24 Does this system of statistical prediction tell me what is the chance of Joe Blank (who has been convicted and sent to Borstal) becoming a recidivist?

Not exactly in that form. There are three stages in the prediction, not just a simple two as implied in our question. An explanation of this must be detailed, but is perhaps important. Prediction of success or failure has a single individual has an undexess expectation of life, but insurance companies are prepared to insure an individual life without this unobtainable and unneceasary information. The expectation of life spline to aggregates or classification groups of individuals and not to single members of the classified control of the classified of the classified in the control of the classified or the classified of the classified or the classified

The authors wish to express their appreciation of the valuable contribution of those several persons who took part in the discussion mentioned.

average. Similarly, before we may predict chances of recidivism we must group individuals into convenient aggregates. This does not, of course, preclude one also seeing them as individuals, but, in fact, we may learn things about each individual in a group by noting the characteristics of his group

which we could not learn by studying him individually. III.25 If we take all Borstal boys together as one aggregate (an inefficient as well as possibly inhuman procedure) we could, from the statistics given in the Prison Commissioners' Reports,(4) for example estimate that about 1 in every 2 was going to be reconvicted, i.e. to have at least one reconviction. (See above, II.17.) We might, therefore, loosely say that a boy committed to Borstal has one chance in two or being reconvicted. But whilst this may be true of Borstal boys in general, it may not be true of Joe Blank. If we knew sufficient about him we might be able to assess his personal chance of success at, say, 90%. But there are many random factors (or factors which appear random because of their complex structure) at work. We could only assess his personal chances if the whole of the experience he would face in Borstal, on licence and in life afterwards, were completely known to us. There is thus no meaning in individual likelihoods of success, since these can only be specified for given future situations which are essentially unpredictable. Life is made up of chance meetings with people, chance influences and accidents of all kinds. If, however, we are prepared to aggregate events, we observe a stability unobservable in single cases or very small groups. In fact, in the statistical sense, the more independent and random the individual variations about the aggregate means, the easier it is to predict aggregates and the prediction of aggregates becomes very simple indeed if the individuals to be included in the analysis are individually independent and completely unpredictable.

III.26 Our thesis is, then, that even if individual prediction were possible by either statistical or idiographic techniques, it would be useless for administrative purposes in a free country. Such individual prediction involves either omniscience of the future chance happenings in the lad's life, which is quite out of the question, or it involves complete control over his life, which is, if not impossible, at least politically undesirable. We must, therefore, work on a probability basis and expect a fair degree of "error" due to variations in experiences during training and after release which cannot be either predicted or controlled. These "errors" will occur even if no other weaknesses exist in the prediction system. The statistical approach takes these variations into account, since we base our predictions on the observed events which include these variations. Thus, again, what at first sight may appear to be a weakness

of this approach becomes an advantage. III.27 Let us take a concrete example of the way in which the above theory has been worked out in this study. If, say, an employer engaged a lad whom he knew had been to Borstal and had no other information known to be related to success or failure about him (no matter how much other information he might have) he would be justified in assuming that this lad had about even chances of being reconvicted. This assumption might be quite wronggiven more relevant information about the particular youth-but in the circumstances and with the data available the employer would be making a rational decision if he acted as though the risk of reconviction derived from his knowledge of the aggregate applied to the individual. We are thus concerned with rational decisions and not with individual likelihoods of success or failure. We require only that such decisions shall be the "best" rational decisions. Thus, although statistical methods in one sense do not allow us to state the probability of any named individual's chance of success, they enable us to make rations about individuals. That is to say, if we behave and make decisions of fought the probability attached to the individual decisions will be and decisions will be an expectation of the decisions will be an expectation of the decisions will be an expectation of the decisions will be a decision will

III.28 The steps towards the "best" solutions along the lines indicated may be illustrated as follows. The first step is simple and will generally be conceded with no difficulties of ethics or philosophy. If we are able to break down our aggregate of Borstal boys into, say, two groups, and one group shows a higher success rate than the other, we may say that the failure rate for group A (whatever A might be) is less than the failure rate for B group. Or we may say, after observation, that the failure rate for those Borstal boys with characteristic X is less than for those not having characteristic X. By this statement we are implying that the population or sample of Borstal boys has been divided into two groups or aggregates—those having and those not having characteristic X. We may utilise this information in calculating decision risks, but not (in the strict sense) individual chances of success. There may or may not be any causal connection between characteristic X and recidivism, but this does not matter. We may still make valid statements about groups having or not having characteristic X, and we may still use this as a basis for rational decisions concerning such individuals.

III.29 But rational decisions based on one factor at a time are not highly efficient unless the one factor gives as much significant information as several. This is one example of a point of difference we have with the Gluecks' original work.(1) They showed that by considering a classification of work habits they derived a prediction efficiency to the value of 0.42, but when 6 factors (including this one) were used together by their system of combining indicators, the efficiency was not significantly greater (0.45).(6) The gain of 0.03 did not enable a more rational decision to be based on 6 factors than could have been made from one. We thus see that each factor included in an efficient prediction equation must add something significant to the value of our decision, and also that as we proceed from the general overall aggregate (about which we can make only statements of slight value) to smaller aggregations, and the more we can isolate and efficiently combine the indicative factors, the better will be our information concerning those aggregates and the more valuable our decisions regarding individuals. There is, of course, no point in adding factors unless they contribute information; by doing so we are not increasing efficiency but only the amount of ineffectual work we have to do. The technique of combining the information derived from several factors without adding also those parts of the factors which contribute no information (the problem of overlapping) is essentially a statistical technique which we will attempt to describe later, but we must first return to the problem of cause and correlation.

# CAUSES AND CORRELATES

III.80 Are the factors referred to and tabulated in this study causes of recidivism? There is no way of knowing whether the word "cause" may or not be reasonably applied to any of our factors. We shall make no claim to unravel

causes of recidivism and we would not claim that even those factors which we find to be most highly associated with failure are in any part a cause of such failure. If we show that truancy is associated with recidivism the remedy would not be likely to be found in making truancy impossible. Truancy and recidivism may reflect a common element of some other factor or factors which so far we may have been unable to isolate, describe or measure. We shall show that the group with fewer job changes is likely to have more successes amongst it than the group with many job changes, but job changing is not likely to be a cause. The "instability" which shows itself in job changing may also show itself in delinquency and recidivism, but we cannot describe the cause of this instability. We may use, however, the factor of job changing as an indicator of likely recidivism, not because it is necessarily associated with the same "cause" as is recidivism, but in its own right as a piece of information leading to rational decisions. The more nearly each factor is associated with "cause", the less likely is it that the weight attaching to that factor may vary with time. The search for "causes" and the search for information on which to base rational decisions may go on together and more often than not by identical techniques.

III.31 How does this project help in furthering an understanding of the causes of recidivism?

The progress that the authors hope to see is along the lines they have jointly adopted in this study. In the past researches have thrown up many hypotheses regarding factors which might be associated with recidivism. These factors have often been referred to as "causes", but this claim has been ignored by us and we have examined quantitatively every such hypothesis which could be tested with the material we had available. We thus utilised as much of previous research as it was possible to do. This stage, completed in this project albeit with some deficiencies which we shall indicate, represents the combining of the greatest possible amount of previous research into bases for rational decisions according to the philosophy of probability which we have very broadly indicated. At the end of this procedure we could allocate Borstal boys to groups of varying probability of failure. But we know that decisions based on this probability concept would have been wrong in a number of cases and, although this number represents far fewer than that which would have occurred if judgments had been based on less information or on information differently weighted, these "errors" afford a challenge. This challenge cannot be taken up by statistics at this stage, except that it may be argued that if more information had been available more precision might have been secured. This argument is true but represents what may well be an inefficient method of improving prediction since the statistician as such does not know what data he needs. The idiographic method in the hands of the experienced criminologist may afford the best method for the next advance. The statistician can say, "Here are 50 or 100 cases which, according to the statistical optimum weighting of factors previously suggested as being associated with recidivism, I predicted would be failures, but these 10 or these 20 were, in fact, successes." More correctly he should say, "Here are 50 or 100 cases where rational decisions based on consolidated previous research would presume failure, but these 10 or these 20 cases were, so far as we know, successes." He might then ask the criminologist why this was so. What were the likely factors which were NOT accounted for in the equation which resulted in or were indicative of the difference between the statistical estimate and the facts? If this question can be answered progress has been made in that further testable hypotheses have been found. The statistician may then come into the picture again, ascertain the confidence to be attached to the hypothesis, include the new factors with optimum weights, and discard any degree of overlap with factors already included. The procedure thus starts its second round of identification (idiographic approach), description, measurement and analysis. Nice as this scheme may seem in outline, there are further theoretical difficulties if it is carried far. The number of cases incorrectly classified by an efficient prediction will be small. If only one case exists, for example, and the criminologist is certain that he can identify what the factor was, the statistician cannot test this since there is no room for any variation (degrees of freedom). Similarly no degrees of freedom are left if there are as many cases as factors suggested. In this report we give a number of case histories which are intended to put some flesh on the dry bones of statistical categories.

# BEST DECISIONS

III.32 Does not success or failure very much depend on how the ex-Borstal boy is dealt with whilst on licence?

Doubless both experiences in Borstal and during after-care have a very large effect upon the youths. It is to be hoped that later researches will examine this problem. Let us first consider after-care. At the present moment in this study, variations in behaviour which are due solely better ability in after-care are included with the "error" of the prediction. It may be that, an original time cases whose pregonist was bad, some may have better, and the care that the contract of the prediction of the contract of the contra

ILLS At any time when we are required to make a prediction, certain information will be available which may be used. The sort of information and the value of this information will be dependent upon the time at which the prediction is required. If we are required to predict after a year's exconduct and experiences in Borstal which would not be available if we were required to predict the force committed. This is, of course, self-evident. Thus the shorter the time between the prediction and the event to be predicted to more information likely to be of value will be available and the better the more information likely to be of value will be available and the better the only became known, say, during the first few weeks of licence, we might be better able to predict success for failure during license. In this study two predictions have been completed, the first using only factors available at comparison of the control of the c

III.34 How can an assessment be made of the effect of after-care?

The emphasis in any prediction study may be in one of two directions, (a) we may seek to predict action under a given set of circumstances or, (b) we may seek to predict the set of circumstances which are most likely to bring about

some stated activity.(7) In this study the emphasis has been on the former aspect of prediction whilst the effect of after-care is a problem more nearly of the second type. We have sought to predict "action (i.e. further crime) under a given set of circumstances". The "given set of circumstances" in this connection is the average or normal circumstances of Borstal boys on release and up to one year after expiry of licence. We know nothing about the circumstances particular to one individual which will occur in the future (taking future to mean any time after the prediction is made). He may go insane, die, meet a good friend or get mixed up with a bad gang, or a thousand and one other possibilities await him after our prognosis is made-whether in Borstal or on release. We do not know, nor have we attempted to find out, how much crime or recidivism is due to factors "inside" the individual, and how much is due to circumstances. We need not know this if we are prepared to make our predictions general, and since general predictions are required for rational decisions we make no assumptions at all about his future except as is implied in our theory, which we may restate briefly with this special point in mind. As these youths were members of the aggregate of convicted Borstal boys at the time of origin, they were also members of the aggregate of released Borstal boys at the time of discharge. They remain members of the sub-groups or not as the facts show for such sub-groups as we are able to construct, and have certain measurable qualities. The prognosis is built up on these sub-groups

III.85 The system of prognosis affords a system for testing the value of different forms of treatment and after-care but does not itself tell us anything about the value of either in general nor about different aspects of the work.

III.36 Prediction methods cannot then tell us which is the best treatment for a young offender?

Only to a limited extent can we gain information about the value of different forms of treatment from this single study, but prediction methods are a useful way of testing the effects of different treatment and will be of value when an integrated plan of research along these lines can be worked out and implemented. We shall then be able to show whether "rational decisions" regarding treatment have a better result than "intuitive" decisions. There is much research to be done before this stage can be reached and ad hoc projects cannot meet the requirements fully. The method which might be used in research of this kind is illustrated in this study by a consideration of the treatment of Rorstal boys in open and closed institutions. The main problem in comparing the results of different treatments is in the different kinds of material upon which the different treatments have to work. We shall show, for example, that the success rate for open Borstals is higher than for closed partly because the open institutions are given better material upon which to work. By use of the "prediction equation", however, we can make estimates of how much of the difference in the results of the two types of institution is due to the form of treatment and how much is due to the better risks sent to the open Borstals.

III.87 Is not this system of prediction a terribly impersonal business—you turn up some tables, add up some numbers and you base decisions on this?

On the contrary. Before a lad can be allotted to a risk category certain information (proved and tested to be relevant) has to be ascertained. This

and qualities.

information distils into small compass the effective results of years of research, So far as the information used in the "quations" is concerned, there is no better way of taking this information into account than by weighting it according to the equation. So far as information which was tested high it equations and found to the fine value as an indicator is concerned, there is no matter as the equation of the experiment of the experiment of the experiment matter which we have a subject to the experiment of the experiment of the touch. Which might prove useful is that which was not examined in this study because it was not available in a sufficient number of cases.

III.88 But some cases will be classified as failures who will, in fact, become successes and some successes will be classified as failures. Is this just?

The iustice of the statistical approach is not arguable-justice is not a function of statistics. Statistics only ensure that rational decisions may be taken with known risks. Nothing is perfect in this world and we must take our choice of taking risks and more often than not coming to the right decision, or of not making any decisions. But decisions will have to be made and we may make these decisions on the optimum weightings given by statistics or intuitively on other weightings, which, given only the same information as bases, must be less efficient. Without statistical aids even more will generally be incorrectly classified. It has, in fact, heen demonstrated in this study that the statistical classification into likely failure and likely success groups results in more than twice the accuracy of intuitive methods hased on judgments of highly experienced assessors. This means that if the assessor has access to the statistical tools and uses his judgment to supplement these (where and in such ways as such supplementation is valid) the two methods together are likely to result in better classification than any one alone. If the assessor interviews a large group of boys in Category A (7 to 1 chance of success) and estimates by his judgments of other factors (in themselves valid) that only 20% of his group will be successful, he will he wrong—hut if he can say that in this group the statistical tests tell him that there are about, say, 5 failures and he believes these failures are 5 particular cases and not any of the others because of factors which were not included in the equations on examined in their construction, he may be making a valuable addition to the information eveileble

III.39 Can the statistical tests tell us anything about the relative likelihood of success within the risk group?

Yes. Each individual obtains a score by the prediction system and we can place the individuals in the experimental sample in rank order. So that given a group of cases in, say, group A, the lad with the lowest score (points counting against success) is the one to whom a stational decision would involve gring the greatest thance of success. Groups have been used in probabilities to individuals for purposes of decisions regarding them.

#### COMPARATIVE NOTES

III.40 Can success be predicted more certainly than failure or failure more certainly than success?

We have arbitrarily separated our groups of risk so that the group we shall call "A" (having the best chance of success) has as large a proportion of

successes amongst it as our group "D" has of failures. So we may say that the chance of success for group A equals the chance of failure for group D. The ratio of failures to successes in group A is 1:7 (using only factors known before committal) whilst the ratio of successes to failures in group D is also 1:7, using the same factors. In "500 Criminal Careers" (1) the Gluecks' hest score group (Table 112) had a ratio of successes to failures 5:15 or 1:8, whilst for failures the ratio for the worst group was 1:17. The ratios are not comparable with our study, since in this research the proportion of failures was about half, whilst in the Gluccks' study it was 80%. To compare the results of our group A and group D with the top and bottom score groups of the Gluccks, we need to consider the improvement on chance which results from these two classifications. For the Gluecks' best score group, 75% were successes against a chance likelihood of 20% (1:8-5) whilst for the worst score group a similar ratio of 1:3.75 was obtained. In our group A 14% were failures against a chance likelihood of about 50%, giving a ratio of 1:3-6, with a similar ratio for group D. Thus the precision of the two classifications for these groups is almost identical. But the number of lads in our group A is greater than in our group D. Unfortunately, the Gluecks in "500 Criminal Careers" do not disclose any numbers of cases in their groups, but it is evident that their worst group was very much larger than their best group. It seems then that, judged in this way, the Gluecks found failure easier to predict than success, whilst we found success easier to predict than failure. In fact "overprediction" of failure has been more common in prediction studies so far than has "over-prediction" of success.\* But we found it more difficult to get information about our bad cases than about our good, and it may well be that in a completely balanced sample of Borstal boys the numbers in D would be about equal to the numbers in A. We cannot offer any proof of this suggestion except that indirectly afforded by the differential availability of the required data.

III.41 In most prediction studies completed to date there have been large groups about whom no prediction could be made. Has this been found in this study?

At first this was so, but we believe that we have found a solution to this problem. The Gluecks' experience may again afford a useful reference. We know that for the centre two groups of their classification very little could be said about likelihood of success, but they do not disclose the numbers falling into these categories. By using the percentages given and deriving estimates of the numbers, it appears that they could not establish a prediction for well over a third of their cases. Their experience, if this deduction is correct, is typical and represented a problem which we set out to solve. We first had to decide at what point we would regard our prediction as ceasing to give useful results. This point we suggested might well occur where, by using the table, we could not get 2 cases right for every 1 wrong. Although this was of greater accuracy than subjective judgments, we regarded this group (where the prediction would have been wrong in more than 1 in every 8 cases) as unpredicted by our first equation. We then sought a classification system for this "unpredictable" group. In this respect we were successful, although the results could be put forward only tentatively as illustrating a useful method rather than as conclusive evidence. In working our prediction system, there-

III.42 How would you assess the main value and limitations of your present work?

The major results of this study must not be considered to lie in the direct application of the experience tables which it provides to the classification of Borstal intakes, and the concomitant administrative action. The study has demonstrated that prediction along the lines explored is possible, but the tables which have been built up often rely heavily on data which might be inadequate. There remains an element of doubt which is mainly due to the fact that the information used for research was not originally collected for research purposes. Data which are to be used for prediction purposes (or other scientific research) differ in many respects from those which are adequate for administrative purposes. Because of this fact we would rather claim that the major results of this study are in its demonstration of workable methods and in the by-products of the prediction technique. We can show, for example, to what extent the higher success rate of Borstals of the "Open" category may be due to the better type of lads upon which these institutions work and to what extent this may be due to the form of treatment. We can show also to what extent the period of detention in a Borstal Institution was associated with the likelihood of success of the convicted youth, bolding out of our estimation the fact that those who appeared to be poor material were likely to be retained longer. We would rather draw attention to the use of prediction techniques as a tool for research than to suggest that they form a basis, at this stage, for administrative action. In using our prediction tables as a means of classification for research purposes we were able to avoid the element of doubt which exists due to the paucity of some of our data. If the experience tables were used for administration, this fact might itself affect the future collection of data, so that our tables, based on data without prediction in mind, may cease to be representative of the future sets of data collected for a different purpose. Why this is so will become clear as we report in more detail the methods used and the results obtained.

#### SUMMARY OF CHAPTER III

After a period of Borstal training some youths committed further crimes ("failures") and some did not ("successes"). Certain data which describe the personality and experiences of these two classes of youths appeared in their Borstal files and other official papers. The main purpose of this research was to find systems of utilising these data, so that the two classes might be discriminated with best advantage

(a) before the committal to Borstal

(b) on release on licence.

Statistical methods were used as an integral part of the research design and, although apparently different, the basic ideas underlying these methods are seen to be closely analogous with methods of intuitive or personal prognosis from case histories. The philosophy of the statistical approach invoked no prior hypotheses but merely set the task of using the available data to its maximum efficiency of discrimination.

No causal relationships were suggested by the analysis. The final results of the study are of value in specific problems without any need to invoke the idea of the cause. The problem was resolved into one of deciding the best

course of action to achieve a given end result most frequently.

The statistical tables which the analytical procedures of this study provided are tables of experience related to success or failure. They are not, in themselves, prediction tables, although they may be used for prediction purposes. The tables show how different past crimes and past social and other factors might best be combined to indicate the successes and failures of the sample studied. It may be assumed that what has been effective in discriminating successes from failures in the past will continue to discriminate in the future. This idea underlies both the statistical approach and the use made of nonstatistical experience by other methods of prognosis.

Two different statistical ideas were involved. The one used the experience tables (statistical data) to suggest only whether a case was likely to be a success or more likely to be a failure and classified the sample into two groups: those for whom success was to be expected on the basis of the experience and those where failure would similarly have seemed more likely, The second statistical idea involved the more efficient but rather more complex estimation of the probability of success or failure. By this, cases may be graded or divided into a number of groups. In the first model there was a simple linkage between the statistical discriminant (success/failure classification) and the criterion (success/failure as observed). The two-group classification may be tested directly against the two groups by which the cases were described. Degree of failure or degree of success were not measurable and, we felt, could not be defined with any real hope of agreement.

The two-group classification is the model with which we carry out most of our exposition. Later (Chapter VI) we shall examine other systems.

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#### CHAPTER IV

# A Description of the Basic Procedures

IV.1 As we have stated in Chapter II, about 2009 youths were received into Bortal Institutions in this country, during the years covered by our study. There were 12 Bostal Institutions in different parts of the country. Each of the country is sufficient to the country in the country is sufficient to the country in the country is sufficient to the country is sufficient to the country is sufficient to which a youth was sent did not depend upon the Criminal Courts who passed sentence, but on the observations made of his behaviour and from a study of his record and background carried out at a Reception Center for a period of about a months.

# SAMPLING PROCEDURE

- IV.2 It was certain that we could make a valid estimate of success or failure only if the cases we were to study in this project were fully representative of the whole of the Borstal population. We could not merely take a set of records which were readily available. It seemed likely that there night be some association between the availability of records and the characteristics of the youth to whom the records applied. This supplicion proved to be fully justified. We, therefore, bad to find a complete list of all Borstal boys and to use this list as a sampling frame.
- one unit with an assumption transmittened for this research project, it was a sale and the same that the same that
- IV.4 As we have noted, every youth who was sentenced to Borstal training proceeded first to a Reception Centre. There were two such centres, one at Wormwood Scrubs and the other at Latchmere House. Every entrant to these centres was listed in the register of admissions. The register of admissions at these two centres, therefore, provided a complete sampling frame for all Borstal boys for any period which we might decide to investigate. The register was, in fact, for our purposes slightly more than complete, since it contained those who, whilst awaiting allocation, were found to be mentally incapacitated or whose sentence was quashed. The inclusion of this additional small proportion of cases in the basic sample was considered to be safer than any attempt to identify such cases at the initial stages of sampling. Sampling should be a rigorous procedure into which no subjective judgment may obtrude. After the complete sample had been drawn, we had 748 cases. of which a total of 25 cases were rejected before further analysis when a study of their records showed that they were not properly included. The exclusions from the complete sample were: 10 found mentally defective, 7 died before completion of Borstal training, 8 sentence quashed and 4 sent to prison. 1 absconded with no further trace. In all except 3 of the residual 723 cases

we were shie to find out whether the youth had proved to he a success or a

failure. IV.5 We had to consider the most suitable period to be covered by the year's sample. It had to be neither so recent as to allow for no adequate time for testing after discharge nor so remote as to be directly affected by the Second World War. The fact that Latchmere House, with its improved facilities for ohservation, was not in existence hefore April 1946 had also to he taken into account. With these considerations in mind and as already hriefly indicated, it appeared likely that the sample would have to be drawn from lads who entered the Reception Centres at some time during the years 1946 and 1947. Before the exact period was decided, a sample of 120 records was examined. This sample consisted of four groups of 30 records each of youths who had passed through Wormwood Scruhs Reception Centre (a) in the second half of 1946, (b) in the first half of 1947, and similarly for Latchmere House. There was no significant difference between the records of the two periods of time to warrant the exclusion of the latter part of 1946 cases, nor was there sufficient difference between the information available at the two centres. It was decided to select cases admitted within the period 1st August, 1946,

to 31st July, 1947, from each of the two centres.

IV.6 We were, therefore, able to get a completely representative sample of all the youths who entered a Borstal Institution during the period of the study. Unfortunately the information available from the reception records was very limited. Any data other than the name and number and details of the Court and date of committal and the nature of the crime for which committed had to be obtained from records not available at the Reception Centres. Clearly the most important piece of information we required was whether the youth could be classified as a "success" (having no further record of crime) or a "failure" (having been apprehended again after his Borstal training, or having had his licence revoked). In this respect we were able to complete our sample except for 3 cases. It is possible that the 8 cases whose names were drawn in the hasic sampling procedure were not traced because of typing errors or other transcription errors in copying from the register of admissions to other papers. A loss of 8 cases in 720 cannot cause a bias affecting our findings.

IV.7 Our data, however, were not by any means complete in other than this one respect. Although this was a serious disadvantage it should not mislead us, since the essential classification into "success" and "failure" groups was ascertained for 991% of the sample. It may, however, mean that we may lose in efficiency of analysis. We were, however, protected from any direct or indirect erroneous assumptions regarding the outcome of cases where the criterion might otherwise have remained unknown-a weakness of some previous researches in the criminological field.

THE RECORDS

IV.8 Each of the youths on arrival at the Reception Centres brought with him a trail of evidence beginning quite often in early childhood. The majority of this evidence was found to he summarised in the Borstal file.\* These files served as the main source of our data in this project and we shall consider their form and design in some detail. The Borstal files were designed to

\* See Appendix IV for outline of such files.

provide the administration of Borstals with the information required to decided upon the treatment of each youth. They were also used to report progress whilst the lad was undergoing training. The files follow the youth should be be transferred to prison, have his linear revised, a prison sentence. It is not to be expected, therefore, that the files which had been passed around from one Institution to another would be more difficult to trace, and that these files would belong to the worst cases—the more lifely failures. This expectation proved to be true. It is expectation proved to be true. It has not been passed and the provide the prison of the provided prison of the provided prison of the provided prison of the sentence of the provided prison of the priso

IV.10. When the individual was released on licence from his Borstal Institution, copies of certain information in his Borstal file were transcribed into a document which formed the basis for the work of the Borstal Division of the Certal After-Care Association. This document was used to report progress whilst on licence. Any further crimes were noted on this record when advice was received from Criminal Record Office that the youth had again been

apprehended, charged and committed.

IV.11. Since it is known that a large proportion of crime is committed by persons who have committed erime before, the main function of Criminal Record Office is to maintain up-to-date information regarding the chamcistics of offenders and offences, noting, for example, when offenders are released or escape, since they are then able to commit further offences. As may be expected, the Criminal Record Office at Southand Yard possesses a

finit-class record system geared to its special purposes. VI/12 The three sources of data which we have named were used in this study in different ways. The data we sought to use were originally obtained for administrative or the study in the study in the study in the study of the study of

information, the Borstal Division lies were the obvious enoise.

IV13 If All half agene well, the project would have consented only these two sets of records. Unfortunately, a fair proportion of the filler could not be reached within the time available for the study, and it was also noted that the reached within the time available for the study, and it was also most district a variety of the study and the same time available for a variety of the same time and the same time and the same available, and the same available to the same available to

represented the worst class of risk, and their files became more and more difficult to trace. It was extremely important that at least some information should be available about each case in the original sample, and that for every case we should know whether or not he had remained crime free until the date of closure of the project. It was in this last stage that we were very fortunate in obtaining the help of the Criminal Record Office. The net result, as we have noted, was that only 3 cases were lost in respect of this vital piece of information. IV.14 We will now return to a consideration of the three individual sources

of our data and note the problems involved and the methods of abstraction, coding and analysis used.

IV.15 The Borstal files which served as the basis for this research were not always complete. From time to time changes had been made, and since the completion of this project the pattern of the files has been standardised. The present file records the places of detention, medical history, particulars of convictions, discharge reports, instructors' reports, Borstal history, record of letters sent and received, visitors' and miscellaneous reports and various inquiry forms which are issued at the time the Courts are considering a possible sentence to a Borstal Institution, for example, home and school reports. A specimen set of headings from the current records are given as Appendix IV. The best files used in the current study were similarly made up, but in a number of cases sets of items were not being recorded by certain of the Institutions. IV.16 The problems in the handling of the Borstal files for the purposes of

this research were of four kinds:

(a) Accessibility. (b) Comparability or objectivity.

(c) Completeness.

(d) Adequacy.

IV.17 In respect of each of these categories of problem arising from the basic data, some modification of the original straightforward scheme of rescarch was found to be necessary. Since we needed to add together our pieces of information, we could only add like to like. We required, therefore, a standard basis of definitions in order to achieve comparability of the data between different reporters and assessors. This standard definition could in some cases be superimposed, but in other cases it was necessary to omit information when comparability was too much in doubt.

IV.18 It is necessary, therefore, to say something about each of the four types of problems arising from the nature of the data, so that an adequate appreciation may be made of the possible limitations of this project which cannot be statistically assessed.

#### ACCESSIBILITY OF THE PILES

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IV.19 We have remarked that the Home Office experienced more difficulty in tracing the files belonging to cases who had been sent to several prisons in the intervening years. In fact, we found that there was a direct correlation between the time it took the Home Office staffs to trace the Borstal files and the proportion of successes in any batch. In total the success rate was 45%, but in the first 800 files received the success rate was nearly 70%. In the end we were 56 files short of the complete sample, and a search by Criminal PREDICTION METHODS IN BORSTAL TRAINING

Record Office revealed that 46 of these 56 cases were failures-a rate of 82%. We cannot, therefore, regard the sample for which data were available from Borstal files as strictly representative of the Borstal intake in the year surveyed. This was a factor underlying and modifying a large proportion of our analyses. It was practicable to make statistical adjustments for this group in some cases, but where important facts are involved we have made such tests as we could and have given some indication of the degrees of reliability of the information if it should be extended to the general case.

IV.20 Different Institutions were designed to meet the needs of different classes of youth, and, as we have explained, considerable care was given to ensure that each individual was allocated to the Institution most suited to his needs. It is not surprising, therefore, that different classes of Institution had different success rates. As we shall see in more detail later, the best 3 Institutions had 128 successes out of a total intake of 194 (a success rate of 64%) whilst the worst 3 had only 56 successes out of a total intake of 187 (a success rate of only 30%). Unfortunately, it seems that the Institutions which were the hetter record-keepers also tended to have better success rates. The fact that some items of information were badly incomplete meant that we had often to exclude even cases where it was available in order to reduce the risk of bias. If we wished to know how, say, 4 factors, a, b, c and d, went together we could examine this by considering only cases where all 4 factors were known-we could not use cases where a, b and d, were known and where b, c, and d were known, since the interaction of, sav. a and h would he incomplete and possibly hiased towards the better record-keepers, and hence towards the Institutions with the higher success rates. This was a different policy from that followed by most criminological research workers in the past. It was their policy to use all the data available for each factor where it was available, but not to require the data to be complete within the configuration of factors utilised. This difference is regarded as being more than a mere technical quibble about a point of detail.

#### COMPARABILITY AND OBJECTIVITY

IV.21 The differences between Borstal Institutions did not affect any of the data which we obtained from the Borstal records relating to periods prior to entry into the Institution. The differences between the Institutions themselves were used as a factor in the study, and, given that the data were complete, no problems of comparability resulted from these differences. Information relating to observable facts (medical record and the like) should similarly cause no great difficulty. But it was when we had to make use of data which were derived from subjective assessments made at different Institutions by the staff of these Institutions that we became concerned. In most of these cases we could avoid the issue hy assuming that differences which were not identifiable were "error terms" and regarding them as such in any analysis. When we consider an item of data independently of its source, we may regard variations about the overall mean for all sources by that one source as adding to the error of our single observations.(1) We had, therefore, to give most weight to objective facts which could not be modified by methods of reporting.

IV.22 Since so much of criminological research work to date has made so much use and relied so much upon subjective judgment, it might seem that this was a very high price to pay for comparability and reproducibility. In

the last analysis it seems that we can show this not to be true. It may not always have been realised in the past that most subjective judgments are hased on observations of facts. We considered that it would be preferable to go direct to what facts we could obtain. The subjective judgment has been useful to past researchers because it has enabled them to put together into one measure, one judgment, a complex of facts-the background facts of the subjective judgment. Statistical techniques, however, have now been developed which enable the configuration of facts to sort out its own classification according to rigorous and known rules. What then at first sight may seem a loss, may in the end prove a gain, if we were able to identify and obtain information on the basic facts which would normally be the basis of judgment. The statistics will put together these facts in the same way in each case and with a known system of maximising the efficiency of such pooling. We should lose only if the facts we put into our analysis were not a sufficient number of the facts upon which subjective judgments are usually based. Thus, for example, the Gluccks (2) used the concept of "industrial success" and "work habits", which we have reduced to the number of jobs in a unit of time, and the average duration of such jobs. We leave the overlap between these two objective measures to be taken care of by the statistics, since we are then sure that no double counting will arise. If these two objective measures account for a sufficiency of the items involved in an assessment of "industrial success" or "work habits" on a subjective basis, our results will not differ significantly from those we would have achieved if we bad used the subjective assessment. By thus avoiding (wherever possible) data which were impressions of different people with different backgrounds at different types of Borstal Institutions at different times, and by using the basic facts without modification, we were able to avoid most of the problems of lack of comparability between the large number of judgments which we should otherwise have had difficulty in reconciling. IV.23 One or two items which did not have a factual basis had to be used.

comparations between the large number of judgments which we should otherwise have head difficulty in reconciling. If would, for example, have been pointless to exclude, because of this principle, the Governor's and Housemaster's reports on each youth. These reports were made immediately before discharge on licence. The Governors and Housemasters were given completely free scope in reporting: the report from was, in fact, a blank sheet of paper giving no restrictions as to the content

nor guidance or directions. IV.24 No particular factor could be extracted from these reports because of their general character. We were much concerned to find the best method of interpreting these subjective data since the Governors and Housemasters were, we considered, the best placed to make such judgments. A special study of these data is reported as Appendix V. We were finally led to the conclusion that the reports were not of much value for prognosis and subsequently we considered that this might be expected from some of our later findings. In Chapter VI we show how the prognosis of optimists and pessimists might differ from each other and from the eventual facts. If Governors and Housemasters were good therapists it seems that they must be also optimistic about their charges, and hence we should expect that any prognosis would not be the best-unless they could separate their rolls requiring optimism from those requiring a detached objectivity. In the use of the data no allowances could be made for the different view-points of the different Governors and Housemasters. We could not identify any one individual

B of image digitised by the University of Southampton Library Digitisation Unit Governor or Housemaster who had developed the art of intuitive prognosis

more highly than his colleagues.

IV.35 The difficulty of interpreting free-style systems of reporting was overence by using two systems of interpretation, one outstandingly "better" than the other.\* The precision of interpretation might be suggested by crosstabulation of the two systems. If the "better" system of interpretation showed a higher degree of agreement between the prognosis and the facts, then we might assume that the value of the reports depended on their interpretation. Using the coefficient of contingency (rs) to indicate the agreement between the romonia of the reports and the outcome, we found the following:

#### Association with Criterion

	"Better" system of interpretation	Cursory assessment of content
Governors' reports	0.20	0-25
Housemasters' reports	0.13	0.22

IV.98 The "better" system of interpretation involved the expenditure of six times the money and effort of the cursory assessment of the content of the reports. There is no evidence that this was justified. Indeed, the simple direct method of assessment yielded a better agreement with the end result (a gain of 0-05 in one case and 0-96 in the other).

#### COMPLETENESS OF THE DATA

IV.28 In common with nearly all criminological studies of this kind, we were faced with the problem that, for a large proportion of the cases, information which we had cause to believe might be valuable could not be found. In all except 3 cases, however, we were able to classify the lads as being either "successes" or "failurer". Many follow-up studies to date have suffered the defect of it not being established in a large preventage of cases what had happened to the individual. The fact that we were able to get such complete information was due to the high efficiency of Criminal Record Office.

<sup>\*</sup> For fuller discussion see Amendix V.

Scotland Yard, whose help was invaluable. For other items of data we were less fortunate. Amongst the items of data which it was hoped to find, the following were available in such a small proportion of cases (less than 80%) that analysis was abandoned.

Records of letters written and received whilst in Borstal All data relating to early schooling

The number of persons in the household. Occupation of the head of the household.

Number of rooms. Occupation of the subject.

Length of stay at address

Income of household or members of household, etc. IV.29 Although this seems to be a fairly gloomy picture, we were able to

obtain sufficient data in respect of about 60 items concerning each youtb. When we required to have several factors simultaneously (for purposes of prediction) the sample size, however, was reduced to about half. We shall later discuss the way this problem was dealt with.

# ADEQUACY OF THE DATA

IV.30 The best answer to the question of whether the data we were able to obtain in a sufficient number of cases were adequate for the purpose of the research is to be found in the results of the research. It can only be guessed how much better the results might baye been had more data been available. IV.31 Clearly there were many items which it would have been of interest to bave explored further, and some of these might have helped in the prediction problem. From a study of previous research in this field, however, the data we were able to obtain were in nearly all cases those data which other workers had found to be of the greatest value in prediction. It is very doubtful if any gain would result from the study of more items or from the study of items in more detail from records of the type which were then available. When we seek to apply statistical methods, we require not so much quantities of data as data of high reliability.

IV.32 The data which we examined were we feel adequate to sustain the claims we make, although improvements might be made in the efficiency of our results if better data and some other forms of data had been available. It is foreseen, however, that the results of this study will quite likely be extended beyond the point where the data and the methods are adequate. Nothing in this study pretends to suggest anything about the causes of delinquency nor about the reasons for the success or failure of Borstal boys. Some of the facts which are brought out in the study may act as "signposts" to "causes". but no more than that, A large number of the correlations which we have used, and are quite justified in using for the purposes for which this study was designed, may be spurious correlations, or correlations which exist only because there are other factors associated both with our criteria and the factors concerned, and some of these may be the observed result of a long chain of unknown inter-associations. We shall show, for example, that youths who had been fined at any time in their criminal career before being sent to Borstal represent worse risks than those who had not been fined. It should not be assumed that fining youths is thus a form of punishment which causes them to become bad cases-either because it represents a too lenient

form of punishment, or because it prompts them to "take out of society"

the money which has been "taken out of them". IV.88 In this case the previous fining was evidence of a previous crime. Perhaps if we separated "previous crime" from previous "fine" the correlation between fining and failure might vanish. But since persons are not fined unless they had failed to comply with some law, the observation of a "fine" in the past experience of any case is automatically an indication of some law-breaking act. Any previous crime would have had a previous treatment, and the treatment and the nature of the crime are essentially confounded. A person who has committed a crime in the past is apparently more likely to commit a crime in the future, and persons who have committed some sores of crimes are doubtless more likely to commit further crimes than those who committed other sorts. The treatment given after any crime takes into account the sort of crime. Few people would argue that it was the previous treament rather than the previous crime which was the real "cause" of the lad repeating his criminal behaviour, nor, without detailed analysis, can it be said whether one form of treatment leads more probably to reformation than another. We hope later to show how it might be possible in future to design studies which might sufficiently distinguish between the factors involved in different forms of treatment.

IV.34 The cause, which may or may not be somewhere in the likely chain of associated events between the fining and the entry to Borstal and release from Borstal, is thus not identified by the simple zero order correlation. This does not, however, prevent us observing the fact that a youth has been fixed, and then, because of this, stating with confidence that a vote of the fixed of the property of the control of the contro

#### RESEARCH OBJECTIVES AND ADMINISTRATIVE DATA

IV.35 We have briefly referred to the differences between data for administrative and research purposes. In concluding this section we feel that some more detailed comment might be of value. The types of data which are usually collected for purposes of administrative action are not normally suitable, and certainly are not as efficient for research purposes as data obtained with the purposes of the research clearly in view. In principle, however, there is no reason why the type of data which are required for research purposes should not also serve fully the purposes of administration. Statistical analyses require that data should be capable of reduction to some form of number (even if this amounts only to "yes" being called 1 and "no" being called 2) and that it should be known whether each and every item was applicable or not. The main difference between research data and data which might serve for administration is in the method of recording, and not in the basic information itself. This is particularly the case for information which is not given. For administrative purposes it might be sufficient that an item is not mentioned when it is regarded as unimportant but for analyses it is essential to know wby an item is not recorded. Although data based on subjective judgment have been rejected as far as possible from the analyses given in the first part of this report, this was not because subjective data as such were regarded as of no value. There may well be occasions when a good definite subjective assessment is of more value than objective measure-

ment. When it is possible to obtain facts or objective measures, these

should, however, always be obtained, and, unless there is evidence to the contrary, regarded as preferable to subjective assessments.\* Objective measures have the feature of being reproducible by others, whilst the value of a subjective judgment depends on the skill of the person making the judgment. If then a number of persons of differing skills are making assessments, the value of the pooled data remains uncertain unless we have, in addition, an assessment or a measure of the particular skills of the judges.† The area over which there is scope for the judges to vary between themselves is itself related to the width of the field they are required to cover in any one assessment. An overall assessment of a personality, for example, is an extremely wide field, and the variation between judges may be expected to be far greater in this case than if they were asked to rate a series of traits separately. The rating of a series of separate traits is in no way a bar to an overall assessment being made as well. If this sort of approach were made, the separate ratings of several traits could be used as a measure of the skill of the judge in overall mting. It seems that for administrative purposes the narrative report has become accepted because of its ease of reading, and administrators bave become accustomed to this form of presentation, rather than glancing down a column of ratings and themselves putting together a composite picture from the parts. From the point of view of research analyses, the putting together of the several parts is best done by the mathematical procedures, and if the several parts are not known with any certainty, much is lost, since the composition of the overall report is not capable of interpretation from within itself. IV.36 Difficulties encountered in interpretation of the Borstal Files have been mentioned and will have to be mentioned again from time to time in this report, and we shall in nearly all cases report that a large number of individuals could not be placed into categories for some factors. This was one of the direct results of undirected, unsystematic open reports, where it was left to the discretion of the assessors whether they mentioned each factor or (if they did not regard it as of importance, either in the particular case, or because they did not regard that factor as important in principle) left it out of their statement. Some gave some details, others different details, some little or no detail. For research purposes, the only information which could be used was that which represented the lowest common factor of all the reports studied. Thus, lack of specific information which might not be a serious deficiency for administrative purposes where one case is being considered at any one time, becomes a very serious loss when we seek to study each case in reference with the group or sample of cases. We cannot focus our attention on specific factors when these are mentioned in only a small fraction of cases, and in no cases are there sufficient factors mentioned to enable inter-associations to be estimated between them.

IV.37 It may be considered that undirected and unsystematic reporting seasists in the description of factors which dely measurement—the intangibles which are usually believed to be very important. Whilst it is likely that there are some unmeasurable factors, it has yet to be shown that they are uncorrelated with measurable factors. In most fields where measurement bas belped forward the scientific approach, it has been shown that the items

<sup>\*</sup> See also IV.21 and IV.22.
† This was, of course, the case with our analysis of the reports of Governors and House-matters.

which it was not possible to measure were also items upon which it was inconsible the find agreement amongst those who most performedly believed in the existence of these unneasurable factors. Unless and until the intargible there is some body of agreement in these descriptions, it will be extremely expensive to attempt to go further into this matter by use of research techniques. It would mean that each flowidual who has a "hunch" that he is aware of important intargible factors must kinself be part of the tests, since belief. If, however, two or more persons can agree on a form of worst whole describes the intangible factors, that is, if these beliefs are communicable, there is then no reason why selentific tests should not be applied to them. Statistical methods are available for testing any theory which is communication understood in substantially the same way by different persons.

# METHODS OF ABSTRACTING THE DATA

IV.38 The personnel who were engaged in abstracting the information required for analysis were trained interviewers of the Government Social Survey and were under the direction of the authors. The items upon which by the specimen working sheet given as Appendix II. The interviewers were required to search the file thoroughly for each item and to record the engagery into which the information efficient work work was subsequently checked by trained "ooden" who would more often considerable and the contraction of the 60 items for one individual case took on average just over 8 hours of the 60 items for one individual case took on average just over 8 hours.

NV.39 The data sheets, in code form, were then transposed to punched cards, and the necessary calculations and analysis were carried out by mechanical

methods.

IV.40 Each card was numbered so that any item of information or any single code could be traced back to the original Rostal file or Borstal Association's record. No names were retained as identification after the initial abstraction of the information from the basic files, and any cross-reference to any specific case could only be made by reference to a key list held by one of the authors.

#### SUMMARY OF CHAPTER IV

S.IV.1. The data upon which the information making up the statistical experience tables are based were derived from three main sources. These were:

Borstal files Records summarising the past criminal records of the case and the information arising during Borstal training.

After-Care files Records summarising the past records and giving details of resettlement.

Criminal Record Police records of crime.

Office files

Considerable difficulty was experienced in tracing the required records.

This was due to the fact that youths with further crimes had been recalled to Borstal or given prison sentences and the authorities had required the records at the new penal establishment. The worse the case, the more the records had moved around the country and the more difficult it was to obtain the file. Some files were not traced within the time available.

S.IV.2. Availability of information was itself correlated with success, and this meant that we had to modify the statistical procedures and lose information in the hope of reducing any bias that the differential availability of information might have caused

S.IV.8. Some secondary procedures of interpretation were necessary to reduce to a comparable form the data from different Borstla Institutions where the form of recording was not standardised. Tests were made covering different interpretation systems. These were carried out in some detail in respect of Governors' and Housemarkers' reports. It was thought that these reports of the contract of the

### REFERENCES TO CHAPTER IV

R. A. Fisher, "The Design of Experiments" (1949, Oliver & Boyd).
 Sheldon and Eleanor Glucck, "500 Criminal Careers" (1930, New York, Alfred A. Knopf).

#### CHAPTER V

# Descriptive Analyses

- V.1 This chapter is devoted to the study of a number of direct analyses which serve as a description of the Borstal boys in our sample and is divided into several sections following a chronological order, from first crime record to after Borstal training. In most cases we have broken the sample into two groups, one the descriptive factor and the second the criterion of "success" or "failure". These direct simple analyses are of strictly limited utility. The association of each factor with the criterion is not essentially informative and in some cases superficial interpretation of this association ("zero order" correlation) may be misleading as we have already suggested and shall later go on to show. In particular it should perhaps again be emphasised that a significant "zero order" correlation is no suggestion of any basic causal association. At the most these tables and the resulting associations with the criterion may be regarded as signposts indicating a road to more detailed investigation. The main function of this chapter is to provide background data. Its utility is not to be found by direct "face value" interpretation but in cross-reference with similar basic material from other studies. It was also a necessary step in our progress towards estimating equations or prediction tables. It will be obvious to those who compare the basic material of this chapter with other criminological research that the factors where we report "zero order" correlations of significance are nearly always factors where others before us have found similar association with recidivism. (See Chapter I. History of Prediction.) Again, it may not be thought surprising that the basic factors of association which emerge from this study are so very similar to those found in many other countries of very different culture patterns. The material of this chapter is also an essential record since it sets a "base line" for further research either in this country or elsewhere—a base line both in time and in space.
- V.2 The purpose, then, of providing these data is not that conclusions may be based on them but that they may serve an operational purpose in future researches.
- V.8 The fact that the various types of backgrounds show very similar patterns of association with the criterion to those found in previous research, even although the approach was quite dissimilar, is a valuable argument. We find good cause to believe that predictions based on equations which in turn are based on these "stable" data might hold for other periods of time are the contractive of the data there were the contractive and the contractive research to the contractive and the contractive research to the contractive the contractive the contractive the contractive the contractive the contractive to hold in the contractive through the contractive thro
- V.4. There seems then to be a stability about some of the characteristics which basically differentiate between the good risks and the recidivists. Other factors which we have used might be changed suddenly by administrative or legislative action and in these cases the association found in the current study would cases to hold. These two classes of factor will be self-evident.

V.5 It is convenient in presenting these basic data to refer occasionally to by-products of the direct "main line" of analysis, and the order of presentation has been decided to facilitate this. For the convenience of readers who may wish to have a shorter reading plan the following is suggested for those interested in the specific subjects listed:

	Sub	ject					Paragraphs
Undetected crime							V.47-V.50
							V.99-V.101
							V.148
Population comparis	ons						V.61-V.66
							V.109-V.111
Open and closed inst	itution	s (effe	ct of t	reatm	ent in	) .	V.128-V.156
Period of detention (	effect of	of)					V.147-V.156
Recommendations re	gardin	g subj	ective	asses	sment	s.	V.82-V.89
							V.157-V.161
Overlapping—effects	of (pri	ectical	proof	١.			V.83-V.85
							V.142-V.148

# PART I

## THE CRIME AND TREATMENT RECORD OF BORSTAL BOYS BEFORE COMMITTAL TO BORSTAL INSTITUTION.

V.o. When a young man between the age of 18 and 88 years is committed to Borstal, he has generally a record of clime behind him, and a variety of Borstal boys in our sample had begun their care of The majority of Borstal boys in our sample had begun their career of The majority of Borstal boys in our sample had begun their career of the property of the sample had begun their career of some degree of 18.4 as might be expected, the earlier the career of crime was commenced the less likely were the lads to reform after the career of crime was commenced the less likely were the lads to reform after the career of crime was commenced the less likely were the lads to reform after the career of crime was commenced the less likely were the lads to reform after the career of crime was commenced the less likely were the lads to reform the resonant to the control of the contr

TABLE 1

The age at which Borstal boys were first found guilty by a Court, analysed according to criterion

Age	Suc	Success		Failure		Total	
16-21 12-15 11 or under No information	No. 122 141 60 8	% 54 46 35 21	No. 104 167 112 11	% 46 54 65 79	No. 226 308 172 14	% 100 100 100	
Total	826	45	394	55	720	100	

V.7 It is likely that a large proportion of the youths had started crime earlier than the age at which they were first convicted by a Court, but it is thought that details of very early misdemeanours might prove less reliable. In all except 26 cases we were able to trace information regarding the first recorded crime. Our source of these data was mainly the Criminal Record Office of Scotland Yard. The data are given below.

TARLE 2 The age of first recorded crime, analysed according to criterion

Age	Suc	Sucotes		iure	Total	
16-22 12-15 11 or under No information	No. 128 181 64 3	% 53 46 28 12	No. 114 152 105 23	% 47 54 62 88	No. 242 283 169 26	% 100 100 100
Total	326	45	394	55	720	100

V.8 It will be seen that there was little difference between the above table and the preceding one showing the first conviction. This may be due to the fact that little attention is paid to very early crimes unless they are of such a nature as to give rise to a conviction. None of the records we have used for this study were designed for research purposes, but served, and were designed to meet problems in administrative action. Since administrative action is often avoided in the delinquencies of the very young, no record for administrative nurposes would be required. This may explain some differences which may be noted between our findings and some American researches. For example, the Gluecks(1) (p. 143) found 28.8% below 12 at "first arrest", whilst 27.0% were in this age group at first delinquency; we found no difference.

#### THE FIRST OFFENCE

66

V.9 For statistical purposes there was no point in attempting to classify either the first or subsequent crimes into various groups; far too many fell into the category of larceny.\* On the hypothesis that the value of the property stolen might help to break down this large category in a way which might be related to post-training behaviour, an attempt was made to classify in this form. The attempt had to be relinquished after the pilot stages for lack of material upon which to make an assessment of value. It was considered that whilst it might be a mere matter of chance whether a youth who breaks and enters a place gets away with a large or small amount of value, none the less it may be reasonable to suggest that his future attitude to crime might be conditioned by his early "good or bad" fortune in this respect. The slight evidence we were able to find seemed to suggest that those who obtained a larger value of goods from their crime for which they were

<sup>\*</sup> Also the Gluecks found no significance in this classification.

committed to Borstal were subsequently more often successes,\* but the differences were at too low a level of significance to permit us to say more than that our original hypothesis remained open. V.10 Table 3, below, shows the analysis of first recorded crime (after pooling value categories) and the criterion.

TABLE 8

Type of first recorded crime analysed by

Type of first recorded crime	Success		Failure		Total	
Assault Larceny Burglary Receiving, fraud and forgery Sex offence Wilful damage and breach of recog- nisances Absconding from Home Office School	No. 4 207 6 8 4 11 1	% 46	No. 3 239 8 12 4	% 54 56	No. 7 446 14 20 8	100
Others No information	20 S	45 42	82	55 58	58 141	100
Total	826	45	894	55	720	100

V.11 So far as the standard form of classification of crime into types is concerned, we may confidently state that any association that there might be is extremely small. This may be due to the very small numbers of cases in some categories, and does not rule out the possibility of this factor being a useful discriminator in the study of groups of criminals where the types of crimina we more thetrogeneous.

### HOME BACKGROUND AND AGE AT FIRST CONVICTION

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V.12 Psychiatrists, criminologists and others have long emphasized the importance of home circumstances and background upon the future development of the young person. The records we were able to routy find no give us very much information about the home or the family W. An donly the subjective assessment of the home made by the official victior or Frobation Officer and certain information on the composition of the family. It was not always clear that the same definition of "family" had been used by all necessors practifies.

\$\tilde{Y}.18 Such facts as were deducible from the assessments were available only in a restricted number of cases and could not be used in a study which sought to throw light upon the individual by analysis and comparison with a number of others. The Official visitors home report, for example, might have served as a guide in any one case (i.e. it might vell serve its administrative purpose) but lack of a point of reference made statistical interpretation immostible.

# EAMILY

V.14 In all except \$1 cases we were able to get some information about the family structure, subject to our sectors about the distillation of family possibly averaging between possible. We show these data below in Table \$4, analysed by the age at the possible of the pos

TABLE 4

Type of family structure (at time of Borstal crime)
analysed by age at first recorded crime

Composition of family	No. in class	Average age at first conviction	Base for average
Wife and child/ren Father and mother Father, mother and sibs	11 84 209 254	14-5 14-0 13-9}18-0	11 34 206
Father only (no mother) Father and stepmother Mother only (no father) Mother and stepfather	30 17 95 29 171	18·3 14·4 14·1 14·1 14·1	29 17 95 28
Institution/Forces Lodgings/relations Living alone	65 79 2	14-1 14-7 13-0	63 78 2
No fixed abode	66	15-0	66
No information	83	14-0	81
Total	720	14-1	716

V.15 The above table is interesting in that the average age of first conviction for social background so widely expanted as "complete home" and "no fixed abode" show no significant difference. There are, in fact, no significant differences between any of the mean age of first convolction for any pair or other combination of entagones. We must, however, be very cautious about forming any hypotheses on the basis of this table. The sample was a sample of Borstal intake, and does not reflect in any way what might be observed if we had sampled from a less selected oppulation. We have thus, in this table, some information of value if an external comparison could be made." We shall consider this latter. Our purpose here is mainly concerned to show the

<sup>\*</sup> In a group of 606 Borstal lads stadied by one of the authors before the war it was found that in 300 cases, i.e. slightly more than 50%, the lad had either no father or no mother or no parents at all or had not been brought up by his parents or that there was separation, divorce or desertion (Hermann Mannheim, "Social Aspects of Crime in England between the Wars", 1940, p. 285).

past record of crimes and punishments of Borstal youths without reference to external groups. Within this special group different patterns might often be found from those more usually described.

#### FIRST CONVICTION

V.10 We were able to ascertain in all except 68 cases the home form of the Borstal entrant. We classified these towns in various ways, seeking by this means to obtain some measure of the effects of the town environment. Unfortunately, we could not classify the environment more exactly than was the country of the country

in future research.

VAIT The nateable value of house property is also a good indicator of the class
and type of dwellings. We would, it seems, be easy for this value to be
and type of dwellings. We would, it seems, be easy for this value to be
account with the member of persons staring the account, and this, taken into
a good objective assessment of the standard of accommodation. In the
present case we were not able to classify the environmental status of the individual home, nor could we say anything about the immediately surrounding
engibeurhood of the dwelling in which the lad lived. We were, however,
able to utilise the fact that the "social status" of a town was associated with
the rateable value of "other hereditiments" a based of the population. (In
the rateable value of "other hereditiments" as hered of the population is
the rateable value of "other hereditiments" as here of the present the
estimated from the ratio of industrial hereditianents value to other heredities
estimated from the ratio of industrial hereditianents value to other heredities
ments value. Or her following three tables show the everage age of the first

TABLE 5

Average age at first recorded crime,
analysed according to the rateable value
("other") a head of population\*

Rateable value a head	Number of cases	Average age a first conviction	
London	147	15-2	
£10 and over	29	13-9	
£9	32	14-2	
£8	120	18-4	
87	60	14-1	
88	118	14-8	
25	45	13-3	
24	31	14-2	
23	10	13-8	
Rural areas	65	14-1	
No information	68	13-9	
Total	720	14-1	

<sup>\*</sup> A measure of social status of the town.

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conviction of the Borstal boys according to these two factors of town "status" and according to the size of the town.

V.18 If we consider London against the rest of the country, the difference in the average age of the first conviction is "significant". The difference is of small significance, however, due to the large variation in the ages at which the lads were first convicted.

V.19 In using these data we are clutching at straws of ecological and social information because no other information covering this field was available. The inadequacy of these data as indicators of social and economic status and environmental conditions is realised.

TABLE 6 Average age at first recorded crime analysed according to an index of industrialisation of the town of residence at Borstal conviction

Industrialisation Index number	Number of cases	Average ag of first conviction	
London	148	15-2	
100 and over	15	14-5	
70-99	11	13-0	
40-69	124	14-3	
20-39	204	13-6	
10-19	32	13-9	
1-9	91	14-1	
Scotland	10	13-5	
No information	85	14-0	
Total	720	14-1	

TABLE 7

Average age at first recorded crime. analysed according to size of the town of residence at Borstal conviction

Population of town	Number of cases	Average ago of first conviction
London	147	15-9
100,000 and over	255	13-6
40.000-99.999	112	14-1
30,000-39,999	14	13-8
20,000-29,999	22	14-0
10,000-19,999	40	14-5
Under 10,000	61	14-1
No information	69	18-9
Total	720	14-1

V.20 As may be expected, these sort of analyses were too coarse to provide much of value. If we could say more about the conomic and social factors of the homes from which these lads came, and if we could make an assessment of the status of their home within the community—where by community we mean some local geographical area smaller than the whole town—we might be able to find some coological factors in criminal behaviour. Some better assessments are now possible by the use of various indices. In future studies in "J-index", in recumple," might provide a good measure of the social study, however, the records available were such that this could not be done conomically.

## INSTITUTIONAL RECORD

V.21 Although we were able to get little valid data about the home conditions and the immediate environmental factors, it appeared that we could ascertain with a fair degree of accuracy whether or not the youth had, at any time in the past, been deprived of home life by spending any time in an institution. For this purpose Home Office Approved Schools were not regarded as "institutions". There were some 65 cases where the papers on which it would have been expected to find information regarding institutionalisation were missing. In these cases it would be biasing the group for whom there was no record of institutional life (but for whom the papers on which such information, should it have been applicable, would have been recorded were present in the file) if both classes were treated together. The difficulty we experienced here would be overcome if blanks were not admitted and reporting officers were required to insert "No", or "Does not apply". As it was, we could never be sure that a blank space indicated that the youth had not been to an institution; there was always the possibility that the record was incomplete in this respect. This same problem presented itself in various forms in most of the items we considered. Accordingly, in the table below, we distinguish cases where there was no information (i.e. no relevant papers) and cases where there was no record of institutional life but where the relevant papers were available (the "none recorded" group).

TABLE 8

Whether the youth had had any experience of institutional life (other than Home Office Approved School) before Borstal sentence, analysed by the criterion

Whether any institutional record  Several years Short period None recorded No information	Suo	Success		Failure		Total	
	No. 22 33 253 18	% 39 49 49 23	No. 34 35 265 60	% 61 51 51 77	No. 56 68 518 78	100 100 100 100 100	
Total	326	45	394	55	720	100	

V.22 It is clear that those who had had long experience of deprivation of bone lift afforded a worse risk of failure than those where there was no trace of such information, and where lack of such information might be interpreted as meaning that the lad had not been deprived of home life (except as a result of his criminal cereer). A short period of time in an institution does not with any degree of confidence.

#### PRIOR CONVICTIONS AND TREATMENTS

V.28 We have seen that most of the sample gained experience of the Courts fairly early in life—at an average age of just over 14 years. The majority had also had a fairly intensive experience of the Courts. In view of the state of the law before the passing of the Criminal Justice Act, 1948, very few boys of the law before the passing of the Criminal Justice Act, 1948, very few boys of the state of the passing of the Criminal Justice Act, 1948, very few boys are stated to the passing of the Criminal Justice Act 1948, very few boys of the state of TiO (10 unknown) or T', of the total Boxtain Intake. The most common number of previous Court appearances resulting in a finding of guilt for the Boxtai population was 4, with an average of 4-24 including that appearance which resulted in the Boxtail entenders early which is coordingly brought them within the scope of our sample. We show below the number of according to our criterion of a towess or failure.

TABLE 9

Number of Court appearances resulting in a finding of guilt,
analysed according to eriterion of success or failure

Number of appearances	Successes		Faib	ures	Total	
1-8 4-5 6 and over No information	No. 167 106 53 nil	% 59 42 31	No. 116 148 120 10	% 41 58 69	No. 288 254 178 10	% 100 100 100
Total	326	45	394	55	720	100

V.24 It will be noted that the more often the youths had appeared in Courbefore Borstal training, the more likely were they to be failures. It is not clear how much of this result may be that those who were sent to Borstal at a first or second appearance in a Court those who were sent to Borstal at a first or second appearance in a Court and that some of the subsequent failures which cour after the period of discurs of our follow-up may occur in this group. There seems to be some likelihood that those who managed to avoid arrest for some time (i.e. had a fair number of crimes taken into accountly before Borstal sentence might manage also to avoid arrest for some time after discharge from Borstal. If they had succeeded in avoiding arrest for two or three years, they would appear in our criterion as successes whilst they should be classified as failures. A small number of such cases could affect our results in this respect. We shall, however, sub-significance.

# FINES

V.25 There seems to be fruitful ground for further research in the subanalysis which we made of previous convictions. We isolated convictions which resulted only in fines. About 80% of our sample had at some time been fined, and the success rate amongst those who had been fined was bride (85%) than for those who had not (62%). This is a significant difference. The detailed analysis je siyen below.

TABLE 10

Number of convictions resulting in fines,
analysed according to criterion

Number of convictions resulting in fines	Successes		Fai	lures	Total	
None One Two or more No information	No. 254 39 33	% 52 80 42 35	No. 239 90 46 19	% 48 70 58 65	No. 493 129 79 19	% 100 100 100
Total	326	45	394	55	720	100

V.26 It is safe to assume that those who have heen fined represent a worse risk than those who have not, but no suggestion as to why this should be so can be made. It might have been of value to have studied the data relating to age at which fines were imposed. Unfortunately, this was not possible.

#### PROBATION

V.27 Of our sample, 62% had had experience of probation before being sent to Borstal. We found that a lad who had in the past been put on probation represented a slightly worse risk than one who was sent to Borstal not having had a period of probation.

TABLE 11
Whether previously on probation, analysed according to criterion

Probation?	Successes		Fail	kires	Total	
Probation Not on probation No information	No. 200 126 0	% 45 51 0	No. 246 123 25	% 55 49 100	No. 446 249 25	% 100 100 100
Total	326	45	394	55	720	100

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- There is in the above table a further illustration of the error of direct interpretation of zero order associations. Younger offenders were, as we shall show, more likely to be put on probation, and offenders who began their crime careers early in life were more likely to prove bad risks even after Borstal training.\* It will later be shown that although probation appears to be associated with a failure risk above the average, this could be almost completely accounted for by the correlation between the early age of the first crime and the likelihood of probation.
- V.29 To the lay mind it might seem that both probation and fining represent lenient forms of punishment. It is shown, however, that the latter was associated with a higher likelihood of failure than the former. Both these differences might, however, arise from factors in the selection of punishments by the Courts.
- V.80 Although we cannot, on the limited data available from this stady. say very much about the effectiveness of various forms of punishment, we collected considerable data which might later be of value. We record in some of the few following tables some of the facts which we have obtained which were associated with the probationary experience of Borstal boys.
- V.81 The periods of time for which the ex-Borstal boys remained free from further convictions after release on licence up to the time of the closure of the follow-up are shown below.

TABLE 12 Period crime free after release from Borstal. analysed according to whether probation had been experienced in the past

Period crime Never on Probationers Total information free probation No. % 65 Nο No. Nο Less than 3 months 88 38 19 1 58 100 8-6 months 40 58 25 40 84 100 6-12 months 65 73 21 23 4 90 100 12-24 months 55 64 98 33 8 8 86 100 Over 2 years 82 68 18 28 2 4 47 100 No recorded crime 199 AT. 120 39 228 100 No information 15 Total 446 62 249 100

V.32 Another analysis which throws some light on this problem is that which analyses the number of crimes committed whilst on licence and up to the period until the closure of the follow-up.

35 25 720

DESCRIPTIVE ANALYGES TABLE 18

Number of recorded convictions whilst on licence to the end of the follow-up period, analysed by whether probation had been experienced in the past

Number of crimes	Probat	tioners	Neve prob			lo nation	Total		
None recorded 1 2-3 4-5 6 or more	No. 200 83 84 84 84	% 61 64 64 76	No. 126 44 40 11	% 89 84 81 24 88	No	% 2 5	No. 826 129 130 45	% 100 100 100 100	
Absconded not recap- tured Sent to prison No information	1 7 8		5 4 2		6 11		6 17 16		
Total	446	62	249	35	25	8	720	100	

V.33 Perhaps the most interesting analysis regarding the problem of the effect of probation, so far as this study can take the matter, is that which analyses the age at first conviction by whether or not the youth had ever been on probation. It will be recalled that the earlier the age at which crime was begun the worse the risk of failure after Borstal training. It will be shown in the table below that the earlier crime was begun the more likely was it that the vouth had been on probation in the past. Since the younger the youth began

TABLE 14

Age at first recorded conviction and whether or not

Age at first recorded crime	Prob	ation	No probation No information			то	tal	
	No.	%	No.	%	No.	%	No.	%
21 and over 20	2		10		,]		.6)	
19	16		10		1		15 28	
16	22	48	15	48	8 1	4	40	10
17	31		40		8 1		74	
16	45		85		2		82	
15	56 7		267		87		85 )	
14	49	66	19	80	8	4	71	10
16 12	66		18 (		8	-	57 (	
12	48 J 69 T		21 ]		1.0		70 )	
Under 11	91	77	12 }	19	2}	4	116	100
No information	10		16		9.0		26	
Total	446	62	249	35	25	8	720	100

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crime the more likely he was to be a failure, we may say that there was a positive correlation between encess and age of commending crime. Also the younger crime was begun, the more likely was the youth to have been on probation, that there was a negative correlation between probation and age of commencement of crime—the younger the more likely was a period on probation. In note to be able to assess the meaning of a period on probation in the probation is a period on probation. In order to be able to assess the meaning of a period on probation (with it attendant default) somewhat more accurately than the zero order correlations show, we may hold commant (or take out of the picture) the factor

of age at first conviction. The basic data are shown in Table 14. V.34 We may not take our analysis very far, but we may perhaps make some suggestions from theory as to what the position might be if the data were able to withstand more detailed treatment. If we refer to the probationers as "p", to the age of commencement of crime as "c", and to success as "s", we may conveniently refer to the correlation between probation and success as Rps, and to the correlation between probation and age of commencement of crime as Rpc. Given certain assumptions of a mathematical nature, we may suggest what would be the correlation between "p" and "s", holding "c" constant. We derive the following values, Rps -0.055, Rpc-0.248. Rcs+0.182. Thus we arrive at Rps.c (holding c constant) -0.024. In other words, if we take out only the factor of the age at which crime began, we find the association between probation and failure drops from 0-055 to 0-024-an insignificant figure. We are, by this means, taking into account in our assessment of the value of probation some measure of the sorts of material upon which probation officers had to work, but by no means all, V.35 These calculations are given by way of illustration of a method which might be considered in the future rather than an adequate and valid assessment of the value of probation. It should, of course, be remembered that our sample of ex-probationers is severely limited-they all went to Borstal, and a period on probation means that a crime had been committed,

#### HOME OFFICE APPROVED SCHOOL

V.86 Like probation, experience of a Home Office Approved School in the past record of a Borstal boy augurs badly for his subsequent success. This is again doubtless due in some measure to the positive association between carly crime and the likelihood of being sent to an Approved School. There are possibilities of other considerations also. Let us consider these by an example. Suppose that a youth had committed a crime and was before the Courts. The crime was such that he might be either fined, put on probation or sent to an Approved School, and his age did not disqualify him from any of these treatments. If the Court were persuaded that he came from a good home and had a high probability of making good, he may well be put on probation, if on the other hand his home influence was assessed as bad, he might be sent to an Approved School. If the crime was a minor one, and the home conditions good and nothing of significance was known against the lad, he may be fined. It may then be that the same factors which persuade the Court to put a lad on probation in the first instance are factors which may make for his relative success after leaving Borstal, whilst those factors which influence a Court towards a committal to an Approved School are those which have the opposite effect. These factors, at the moment, we know nothing about.

V.37 The analysis of Approved School experience and the criterion are shown in Table 15:

TABLE 15

Experience of Home Office Approved School, analysed according to criterion

Succ	Successes		Failures		Total	
No.	%	No.	%	No.	%	
226	55	184	45	410	100	
95	34	186	66	281	100	
5		24		29		
326	4.5	394	55	720	100	
	No. 226 95 5	No. % 226 55 95 34 5 —	No. % No. 226 55 184 95 34 186 5 - 24	No. % No. % 226 55 184 45 96 84 186 66 5 24	No. % No. % No. 220 55 184 45 410 95 34 186 66 281 5 - 24 - 29	

Approved School is prognostic of failure after Borstal training. This does ont necessarily reflect in any way upon the treatment at such schools. It may be that those cases which do not show promise early in their career are sent to such schools rather than given other treatment and that the sorting of the cases is, in general, an effective process. There are also many other explanations. For purposes of predicting the success of Borstal youths, explanations. For purposes of predicting the success of Borstal youths, as we find them. V.39 a Although none of our findings regarding the association between next

V.38 It is quite certain that a period of time spent at a Home Office

V.39) Although none of our findings regarding the association between past crimes and treatments can be held to reflect upon the effectiveness of such treatments, they may help to provide a guide to an assessment of such treatments when therefore exceed a been carried out. At the moment we are ments when there research has been carried out. At the moment we are remote when the complete sample of Borstal boys but only a very biased. another the complete sample of exceeding the complete sample of expressions and excitome Office Approved School boys.\*

#### ABSCONDING FROM APPROVED SCHOOLS

V-40 Absconding from Approved Schools was found to be very frequent amongst those who subsequently found themselves in Borstal. If we ignore those absconders from Approved Schools who were sent to Borstal because of this fact, we find that 113 out of a total of 227 find absconded at least once during their term at the school. It is not known whether this appresents a contract of the contract of

<sup>\*</sup> It is reasonable to suppose that those cases where many different treatments have been tried and failed are more likely to fail when given a different treatment (Borstal) later. Or sample of probationers, ex-Approved School boys and fined young persons are all failures for these treatments, otherwise they would not have been in our sample.

TABLE 16

Abscondings from Approved School, analysed according to criterion

Number of abscondings	Suco	15565	Fall	ares	Total		
	No.	%	No.	%	No.	%	
Not at Home Office Ap-					l		
proved School	220	57	166	48	386	100	
No abscondings	50	88	82	62	132	100	
One	22	85	40	65	62	100	
Two or more	21	80	49	70	70	100	
No information	18	19	57	81	70	100	
Total	326	45	894	55	720	100	

V.41 Those Borstal boys who had not in their past record been sent to an Approved School thus provided a far better risk in Borstal than those who had, whilst those who had not only been sent to an Approved School, but who also had a record of absconding once or more from such absolos were quite bad risks—nearly twice as bad a risk as those with no experience of Approved Schools.

#### OTHER INSTITUTIONAL EXPERIENCE

V.42 We have earlier shown that 124 out of 648 known cases in our sample had had a period of time at an institution other than an Approved School, with 56 cases having been deprived of home life for a period of several years. We examine now the concomitance of these. V.48 Fifty of the Approved School bove in the sample had had other

We examine now inconcommance of meaning the sample had had other institutional experience, and of the total sample about half had had experience of either an Approved School or other institution. We give these data.

TABLE 17
Approved School and other institutional experience in the total sample of Borstal cases

Approved School		Other	Institu	tional	Record		,	io.				
Approved School	No	ne	Short	time	Severe	d years		nation	Total			
None At Approved	No. 816	% 77	No. 39	% 10	No. 88	% 8	No. 22	% 5	No. 410	% 100		
School No information	201 1	72	28 1	10	22 1	8	30 26	10	281 29	100		
Total	518	72	68	9	56	8	78	11	720	100		

50

72

680

201 479/

V.44 We may thus summarise the experience of institutional life of the sample of Borstal boys as follows:

At both institution and Home Office School At Home Office School but not other institution At other institution but not Home Office School

Neither Home Office School or other institution

316 Total known cases No information

V.45 This, apart from any other finding, is quite remarkable. Out of a total sample of 639 known cases, representative of the Borstal population in 1946-7, half had had some institutional experience before committal. By far the larger part of this prior institutionalisation was due to previous crimes, but in at least 122 cases (18%) this is not so. It seems certain that far more Borstal boys have had experience of institutional life (not associated with crimes) than would be the case if Borstal boys were a cross-section of the population of adolescents. Cause is not, however, suggested by these correlations. If the youths who had been in institutions had not been in institutions we do not know whether they would have managed to keep clear of Borstal. It seems likely that the "causal basis" (whatever this may mean or he) which relates to institutionalism and to crimes which lead to Borstal is in the same or similar configuration of "causes". In human situations the direct simple interpretation is seldom the full or correct one. But again, this does not prevent the use of these correlations within their limited sphere of operational use as guides for action and as pointers to further research.

#### DRUNKENNESS

V.46 One of the strongest associations between failure and previous history of misdemeanour is found in the case of those who have been charged with drunkenness or where there was evidence of excessive drinking. In the sample there were 32 cases of lads who fell into this category, and only 3 were successes after Borstal training.

## OTHER CRIME RECORD

V.47 Our consideration of the previous crime record of Borstal boys would not be complete if we did not consider the number of crimes taken into account at the time of the Borstal sentence. In nearly two-thirds of the cases in our sample the youth asked for other crimes to be taken into account when he was before the Courts on the charge which resulted in his becoming one of our sample. Crimes taken into account are, for a time at least, undetected

crimes, and as such we may find the information useful. V.48 In only 36% of the cases was the crime for which the lad was sent to Borstal the only one taken into account in the Court's decision. In these cases there may have been also a previous history of crime which had been detected and for which prior punishment had been received. About 12% had eight or more crimes to be "taken into account", when on the charge

resulting in Borstal training. The detailed analysis is given below.

80

TARLE 18 Number of crimes "taken into account" when committed to Borstal training, analysed according to criterion

				No. % 240 100 221 100 83 100 114 100	
None   10   1-2   10   3-4   5   5 or more   5   No information   1.   Total   33	4 43 4 47 0 60 5 48 3 21	No. 136 117 83 59 49	% 57 53 40 52 79 47	240 221 83	100 100 100

V.49 The data given in this table might throw light on two hypotheses. We might take the view that experience of "getting away with" a fair number of crimes before apprehension might lead the youths to consider that they might "get away with it" again, and to be prognostic of failure. Unfortunately, it is not possible to test this hypothesis. It is also possible that those who managed before their Borstal sentence to avoid arrest for some little time might similarly manage to avoid arrest for some time after release, although they might have committed further crime. If they had so managed to avoid arrest to the extent of three or four years, they might have shown in our criterion as "successes" and not as the "failures" they really were. If this factor of differential rates of detection were a serious objection to our criterion. we should expect to find the association between the number of crimes taken into account and the proportion regarded as successes to be a linear association. This did not appear to be so. Although we had only 114 cases in the category who avoided arrest for five or more offences before being apprehended and committed to Borstal, this group showed a significantly higher failure rate than the group who had only three or four crimes taken into account. and a rate no different from those with only one or two crimes taken into account. But the first three entries in Table 18 do suggest that either those who had several cases taken into account had avoided detection more frequently after discharge, or that they were in fact more often "successes". We are left with the problem of deciding whether the apparent trend of the nil-4 crimes taken into account is more likely to be valid than the five or more group. We may make a statistical test by fitting a line which is the best fit to both observations and our hypothesis and testing whether the departure from linearity is likely to have been due to chance. The result of this test shows that the hypothesis of linearity is unlikely to be true, but we cannot state this with much confidence. This seems to suggest that a study of crimes taken into account would be a rewarding line for research both with regard to prediction studies and wider fields of criminology.\*

V.50 The problem of undetected crime is a difficult one and crimes taken into account are only undetected in a very special sense. In our case we were

See also "Social Aspects of Crime", by Dr. H. Mannheim (1940), pp. 44-6.

concerned with this problem only in so far as it might have affected our criterion of success or failure. It seems that we may regard our period of follow-up as adequate. The failures who were likely to be apprehended had in seneral been apprehended by the time our follow-up ended. Those others who might have committed crimes which remained undetected were treated as successes, and we can only assume that the proportion was small. In any ease no other unequivocal criterion existed. There is other evidence which leads us to believe that this approach is sound and we shall now direct our attention to a part of this and take the subject up again later (see V.99-101). Let us assume that those who had no crimes taken into account at their Borstal sentence represent those who were more easily detected, and that the fact that they were detected before they had accumulated a record to be accounted for predicts that they are likely to be detected in further crime after release more quickly than those who at their Borstal sentence had several undetected crimes for which to account. From what is known about criminal habits this seems likely. Then we note that the overall success rate was 45%. whilst for this group it was 48%-an insignificant difference. But our unknown cases bias this result and we might reasonably compare the 43% with the 53% "successes" who in 1946-7 had three or more undetected crimes taken into account. If we could be certain of this comparison we might suggest that 10% of this group of 114 cases were likely to be classified wrongly -that, in fact, a further 11 cases classified as "successes" were, in fact, failures and that this will become evident when they are later apprehended. Some few additional failures might come from the other group also, but the total incorrectly classified would not appear by this theory to be large. It is material to ask how this would affect our results. Clearly it affects in some measure all our zero order correlation tables, since any factor which is associated with "undetected crime" will show an increment as though the factor were associated with success. We accordingly studied the factors to see whether there was any indication of this. The only factor which emerged as of any importance in this respect was that of intelligence.\* The more intelligent had more crimes taken into account at their Borstal sentence. This suggests that the more intelligent the criminal the more difficult was detection; surely a reasonable suggestion. The factor of intelligence may, therefore, be associated with "success" because of the interpretation of the criterion of success. This argument serves merely to show the value to this form of analyses of the data relating to crimes taken into account, but since we cannot be sure of the basis for our comparison in our present data, no other purpose is served. We could not obtain reliable data relating to crimes taken into account for earlier convictions than that which resulted in the Borstal sentence. This was, it now appears, unfortunate.

# PART II

#### BORSTAL CRIME

TYPE

V.51 The last incident in the career of crime before committal to Borstal—
the dividing point in our time factor in this study—was not studied in any
great detail. We established quite early during the pilot tests that a classification of the main group of criminal activity (largency) into values of the coals.

obtained was not possible. No other classification that we could then devise gave us any degree of diversity in the classification. As variation is essential if statistical methods are to be applied, costs were cut, and the extraction of the information was not completed. Since the valuation coding of the items stolen might be of interest, we give below the incomplete data.

TARLE 10 Tupe of crime for which committed to Borstal, analysed by criterion

Type of crime	Success	Failure	Total	
Assault	9	2	11	
Breaking and entering,				
(0-25	697	547	123)	
robbery and larceny < £5-£50	56 > 168	39 > 121	95 > 289	
Over £50	43	28	71.	
Burglary up to £5	81	15	ยา	
(9 p.m6 a.m.) £5 to £59	6 > 19	4 } 7	10 26	
Over £50	5.	2)	7	
Receiving, fraud and forgery	9	4	18	
Sex offences	2	2	4	
Wilful damage and arson	1	1	2	
Absconding from Home Office Approved School	8	9	17	
Others including breach of recognition	6	6	12	
No information	105*	242*	346	
Total	326	394	720	

<sup>\*</sup> This large component of no information is due to the requirement to assess the value of the property stolen.

V.52 As Table 3, we presented similar data relating to the first recorded crime, and our observations made then apply also to these data.

#### LONE OR ASSOCIATED

V.58 So far as information was available, it seems that the majority of crimes which led to Borstal were "associated" crimes. A study of the data given in Table 20 (below) will, however, soon make it clear that our information was very poor. We show, for example, 28 cases where the youth was the leader, and 226 cases where the lad was "associated" in crime with others, If we assume that in any "association" one must be the leader, this gives the average size of the gang as (226+28/28) nine. On the other hand we may assume that in a large number of cases the association was one of mutual responsibility, an association of equal partners with no leader. It might have been helpful if this were definitely known. In any case, since it is unreasonable to suppose the average group size to be as large as nine, we cannot assume that the "associated" group represented only those who were led by others. This group needs breaking down into two classes at least-(a) member of leaderless gang (i.e. equal partners in crime), (b) member of gang with leader (i.e. not leader).

TABLE 20 Lone or associated crime, analysed by criterion

Lone or associated crime	Suo	cess	Failure		Total	
Leader of crime gang Associated Lone No information	No. 15 189 68 104	% 54 62 59 30	No. 13 87 48 246	% 48 38 41 70	No. 28 226 116 850	% 100 100 100 100
Total	326	45	894	55	720	100

V.54 It thus seems that leaders were worse risks than all others—but not to a very large degree, and that lone criminals fall next in risk order. The findings in this study have no significance on their own, and these data are included only because they are strongly supported by other studies, and it was incumbent upon us to examine the matter as far as our data would allow.

## PART III ENVIRONMENTAL FACTORS

V.55 In this section the analyses will be parallel in many respects to those given in the first part of this chapter, except that we shall now be discussing factors relevant to the "Borstal crime" and not the first conviction .

#### NATIONALITY

V.56 The majority of Borstal boys in our sample were born in England; in fact, the numbers who came from the other parts of Great Britain were too small to suggest any significant differences, except that, when compared with the population "at risk", there were significantly fewer boys in our sample who were born in Scotland. There was and is, however, a Scottish Borstal not coming within the authority of the Prison Commissioners, and which could not be included in this inquiry. The Scottish lads in our sample were, therefore, those who, although born in Scotland, had made their home in England. The data regarding the place of birth of the sample are given below:

TABLE 21 Place of birth of the sample of Borstal boys

Place of birth	Successes	Failures	Total
England	284	206	590
Scotland	7	11	18
Wales	14	20	34
Ireland	8	4	12
Other	3	4	7
No information	10	49	59
Total	326	394	720

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V.57 These figures were compared with the population of the areas concerned of the appropriate ages, and there was no significant difference between the total number of hops who (relative to population) find their way into Borstal, nor was there any significant difference between the success rate for the different origins.

## FAMILY STRUCTURE

V.88 If was possible to find data relating to the number of persons in the subject's household in little more than half of the cases studied. From these cases it does not appear that there was any strong association between the six of the household and the littlehold of subsequent cuckers represent the subject of the household are present of the Borstal boys' asmple differed markedly from the household six for present of the Borstal boys' asmple differed markedly from the household is negerial. From a survey of young persons between the ages of 15 and 20 years, "I (an age group roughly comparable with that of the present that the subject is an advanced by the present of the subject and such control of the subject and the subject and such control of the supportate age range. It will be noted, however, that the date of the two sets of data diffus—the Borstal boys were in their homes in 1947 and 1300 there was doubtless some improvement in the recence observed.

V.59 We show below as Table 22 the Borstal sample analysed according to success and failure rates, and as Table 23 the comparison of the total Borstal sample with that of the general population.

TABLE 22 Number of persons in the household, analysed according to criterion

Number of persons in household	Su	coesses	F	úlures	Total	
Up to 3 persons  4 5 6 7 8 or more Institution, etc. No information	No. 68 26 29 25 15 36 2	59 74 02 76 50 50 50 38	No. 48 9 17 8 12 37 2 261	% 41 26 37 38 37 24 44 44 45 67	No. 116 35 46 33 27 72 4 387	}100 }100
Total	326	45	394	55	720	100

V.00 The main difficulty in interpreting Table 22 was the large number of cases for whom information was not available, and who were more likely to be failures than those for whom information was obtained. It might be supposed that the differences between the Borstal sample and the general population sample might be greater if the Borstal sample were complete and we had included the bad risks ormally with the better one.

TABLE 28

Comparison of the number in household in the Borstal sample and a general population sample of adolescents Number of persons | Borstal sample | General population

n nousenold		of adolescents
Up to 3 persons	% 85	% 21
4	10	26
5	14	20
6	10	12
7	8	8
8 or more	22	9
Not at home	1	4
Total	888	1890

Note. Total for the Borstal sample excludes 387 cases for whom the information was not available in the records.

tion was available) came from the larger and from the smaller housebolds. It may be that the smaller homes tended more often to be "broken homes", and that if this factor were removed a simple progressive difference might be observed. On the other hand it may be suggested, as indeed bas often been done, that the "only child" is the "problem child". It is unfortunate that these data do not withstand detailed analysis of this kind. It is, however, known that there is a strong association between large households and the incidence of overcowding, and we can examine the hypothesis about only children.

The control of the control of

V.61 There seems to be some utility in these sorts of data, but without knowledge of the number of roons available to the households of different sizes it is not possible to use the measure to the best advantage. It is interesting, however, to speculate why an excess of Borstal hove for whom information.

dwellings.

TABLE 24

General population of adolescents. Number of persons in household

General population of adolescents. Number of persons in household analysed by accommodation level

Rooms per person

Number in							Not at	Total
household	up to ½	ŧ	1	14	2	3 or more	home	
Up to 3  4  5  0  7  8 or more Not at home	% 1 1 1 1 1 3	% 1 3 2 3 5	% 2 5 12 7 2 1	% 5 14 5 1	% 11 2	% 2 1	% 	% 21 26 20 12 8 9
Total	7	10	29	25	18	3	4	1390

V.68 We are justified, it seems, in assuming that Borstal boys were more frequently found in the larger, and thus more likely, overcrowded households, and also in the smaller households which may tend to he "broken homes". Better data are needed before this point may be adequately explored.

V.64 From further analyses and comparisons with the general adolescent sample it does not appear that the "only child" was a more likely entrant to Borstal than where the family included sillings: in fact, the reverse was true. We show below a classification of family structure for the total sample of cases compared with a similar classification for the total adolescent sample inquiry.

TABLE 25 Family structure of Borstal sample compared with a general population sample of young males

Family structure	Borsts	l sample	General popula tion sample
	No.	1 %	94
Only child with both parents	34	6	17%
Mother, father and siblings	2097	1	
Father and stepmother	17 }	45	62
Mother and stepfather	29 ]	1	į.
No father	95	17700	11 3 14
No mother	30	55""	85**
Not living with either parent	158	27	7
Total	572	100	1390 (100%)

Note: Excludes 83 cases for whom there was no trace of the information and 65 H.M. Forces or institutional cases.

V.65 In the general male population between the ages of 15 and 20 years, excluding those who were serving in the Forces, 17% were living with their parents with no other children in the household at the time of the inquiry, whilst in the Borstal sample we found only 6% in a similar classification. In the general population sample it was not (for the purpose of the specific inquiry for which the data were collected) necessary to differentiate between blood and step relations. By similar pooling of the appropriate categories in the Borstal sample, we find that the "normal home"-mother, father and sihlings-accounted for only 45% of the cases, whilst in the general population 62% fell into this category. If we define a "broken home" as one where one or other parent was absent, we find that 14% of the general adolescent population fall into this class, compared with 22 % of the Borstal boys,

V.66 The value of these data for purposes of comparison is difficult to assess because the two sets of data were originally obtained for two entirely different purposes, and whilst the general population data relate to a specified date and to the condition applying in the home at that date, it was not often clear to which time the parrative report of the home circumstances of the Borstal boy related. The former data were collected in the field to rigorously defined categories, whilst the latter were placed in the categories by interpretation afterwards. The classification of the narrative reports into the categories was carried out by the same staff as was employed on the carlier field study. V.67: It seems fairly clear that we need to know more about the group who were living in lodgings or boardings houses. Those who were in fact living in "broken homes" did not seem to be a serious problem, but rather those who also homes. This was the carlier stage of the breaking up of the home, or by various other ways. No light can be thrown upon this at the moment.

V.68 We may pool the small categories and examine the association between our criterion and the type of home background of Borstal boys as derived from interpretation of narrative reports. These data are given below:

TABLE 26

Type of home background before Borstal,
analysed by criterion

Type of home background	Suc	cess	Fai	lure	Te	otal
"Complete" home "Broken" home No home No information	No. 159 72 79 16	% 53 57 38 19	No. 141 55 131 67	% 47 43 62 81	No. 800 127 210 83	% 100 100 100 100
Total	326	45	394	55	720	100

x<sup>2</sup> ≈15-51 for 2 degrees of freedom P less than 1% level ré =-207

V.60 This shows that although more boys entered Borstal from "hooken bones" than would be expected if the Borstal entry was drawn equally from complete and "broken homes", those from "broken homes" after Borstal training did not appear to be worse risks than those from complete homes. I have been appeared by the properties of the prop

#### SIBLINGS

the difference was small.

V.7.1 In all but 118 cases we were able to trace information about the number of brothers and sisters (including half-brother and -sisters) in the Borstal boy's family. There seemed to be some better chance of those Borstal boys who came from the smaller families making zood after treatment, but

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TABLE 27 Number of siblings, analysed by criterion

Number of siblings	Suco	esses	Fallures		Total	
10 or more	No.	%	No.	%	No. 15	%
9 8	12 12 12	47	18	58	25 24 36	100
7 6 5	17 J 30 28 40	48	19 J 20 87 42 }	52	56 65 82	100
4 3 2 1	51 40 35	52	42 41 28	48	98 81 68 59	100
Nil No information	27 J 28	24	32 J 90	76	118	100
Total	325	45	304	55	720	100

V.72 Whilst there was some slight association between the number of siblings and the likelihood of success, this association was not so large as that reported in some American studies. These data, however, had to be found amongst unsystematic narrative reports of various kinds, and in some cases the facts may derive from doubtful sources.

#### SOCIAL STATUS OF THE HOUSEHOLD

V.73 Our data in respect of the social and economic status of the households from which the Borstal boys came was deficient in many respects. We could ascertain the occupation of the head of the household (usually the leaf's fisher) in only just over 100 cases out of the 790. From these cases it seemed that those who came from homes where the head of the household was in a supervisory grade or a clerical or distributive occupation, the leaf afforded a better risk than all others. On the present data this cannot be stated with any certainty, and there seems no point in producing the tabulation of these

<sup>\*</sup> This finding is derived from a technical sampling research carried out by the Social Survey (unpublished).

worth exploration in future studies of criminal prediction in the study of mobility. Perhaps mobility is associated with the commission of crime-the lad moves because he fears detection, V.75 We give below the data in respect of the cases where we could obtain

fair evidence of the duration of stay at the last address.

TABLE 28 Duration of stay at last address, analysed by criterion

Length of stay	Succi	25908	Faih	ires	Total		
Since chidhood 7 years or more	No. 112 9)	% 62	No. 68 5)	% 38	No. 180	% 100	
4-7 1-4	8 8	59	8 14	41	16	100	
Less than 1 year	48	55	40	45	88	100	
No information	127	88	259	67	886	100	
Total	826	45	894	55	720	100	

V.76 Religious background is difficult to define in any situation, and in the present case perhaps more difficult than usual. We were, however, able to ascertain in respect of nearly all cases the denomination which was given by them on entry to the Borstal. In view of the findings of the Gluecks,(10) it seemed desirable to record and analyse this information even although its interpretation might be open to various objections. We may perhaps be justified in regarding these data as referring to "nominal" religious affiliation. It seems, as the Gluccks also reported, that lads who professed the Roman Catholic faith were more often committed to Borstal, and that those who professed nonconformist faiths less often than the population at risk would suggest. It is estimated by various bodies (Mass Observation and the Gallup Poll) that there are between 9 and 10% of the population of this country who are nominally Roman Catholic, whilst between 11 and 12% may be classified as Nonconformists. The residual usually describe themselves as Church of England, except for about 5% who state that they have no religion. In the Borstal sample we found 148 cases out of a known 668 or 22% who described themselves as Roman Catholic (population at risk 10%) and 30 who described themselves as Nonconformists or 44% (11% at risk). This finding is of interest mainly because of its indirect inferences with respect to our findings on broken homes. It seems that at least as many Borstal boys come from homes where the code of marriage is more stringent as come from homes where the code is legislated only by the civil law. The analysis of the successes and failures in our sample according to their nominal faith shows Nonconformists with a success rate of 58% and Roman Catholics with a success rate of 48%—there is no significant difference between these two classes in terms of nominal faith. Detailed figures are given below.

TABLE 29

Nominal religion, analysed according to criterion

Religion stated on official papers	Succe	Successes		Failures		Total	
Roman Catholic Church of England Nonconformist Atheist No information	No. 65 234 16 1	% 45 48 53 —	No. 78 252 14 — 47	% 55 52 47 82	No. 143 486 30 1 57	% 100 100 100 — 100	
Total	326	45	391	-	717*	391	

# a non-Caristian religions excluded. V.77 It may be thought that our population comparisons and the Gluecks'

findings both suggest a greater tisk for adherents to the Roman Catholic flath because the profession of this faith tends to characterist the poores areas. Liverpool, for example, is known to have a high proportion of delinquents and also to have above average poor-clast ordings; it is also believed to have an above average Roman Catholic population. Analysis of the faith time the proportion of the propor

TABLE 80
Religion professed by Borstal boys and the rateable value per head
of the town of residence

Religion	Average ratesble value £'s per bead	Number† on which average was based		Total in sub-groups	
Nonconformist, Church of England None or non-Christian Catholic No information	7-2 6-8 7-0 6-9	No. 21 311 2 107	% 5 71 — 24	No. 30 486 4 143 57	% 4 67 1 20 8
Total	6-8	441	100	720	100

<sup>†</sup> Excluding London, rural and no information

V.78 There may be many complex factors interacting to give the results shown in this analysis by religious background, and the precise meaning cannot be determined. The results of our investigation are produced to afford comparison with earlier studies involving this factor, not because we feel

that much of value is derived at this stage by such analyses.

# WAMILY CRIMINAL RECORD

Y.79 In 285 cases there was no trace of any other member of the family having been apprehended for crimes, whilst in 131 cases some record of other crime in the family was noted. In 64 cases the information could not be obtained because the appropriate appear were missing, or the file was not traced. If we took an overall view of the data, omitting any consideration of the cases where no information could be traced, there was no significant association between the success rate of those with and those without a record of other crime in the family.

TABLE 81

Whether any record of crime in the family
analysed according to criterion.

Whether any record	Suo	cess	Fail	Failure		otal
Some record No trace of record No information	No. 60 255 11	% 46 49 17	No. 71 270 53	% 54 51 88	No. 131 525 64	% 100 100 100
Total	326	45	394	55	720	100

V.80 If we examine the data regarding family crime record in terms of the age at which the youth first commenced his career of crime we find that there was some slight association; those who began crime early having a slightly higher probability of coming from homes where other members had a criminal record.

TABLE 82

Age of first recorded crime,
analysed according to family crime record

Age at first conviction	Fami reco		No family No information		Total			
	No.	%	No.	%	No.	%	No.	%
21	2)		6)		1	Į.	8)	
20	1		11		1	i	18	1
19		1	22	1	2		24	
18	6 >	14	32 >	78	2 >	8	40 >	100
17	10		50	1	2	l	62	ĺ
16	12		62		5		79	i
15	12	i	64		18		89 ]	
14	177		547		67		777	1
13	15 >	22	49 }	70	7 }	8	71 }	100
12	16 )	1	50 j		5)		71)	
11	147	22	491	66	87	12	717	100
under 11	24	22	64	66	18 7	1.2	101	100
No information	2		12		1		14	
mate)	202	10	***	70	0.4	0	790	100

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V.81 There is thus some tendency for those who had been found guilty by a Court before the age of 14 to have been more likely to have come from homes where other members had a criminal record

#### HOME CONDITIONS GENERALLY

V.82 It is unfortunate that we could not obtain more facts about the home conditions and that these data were not available for different periods in the crime careers of the sample. How much the efficiency of the prediction equation might have been enhanced if we had been able to obtain better data in this respect cannot be guessed. Perhaps there would be little gain in efficiency because we may have been able to use correlations with other factors which themselves reflect these (perhaps) more basic data. In the present case, and within the limitations of our terms of reference, the loss of these data does not perhaps represent a great disadvantage. If we had these other data, and they were nearer to being the root "causes", then the other factors which we have used and which derive from the same root "causes" would drop in efficiency as predictors. If, for example, we were to include "drunkenness of parent" as a factor, and there was a complete correlation between parental drunkenness and drunkenness of the individual (this is highly improbable but will serve to show our meaning), then our factor of drunkenness in the individual would have no weight in our analysis since its predictive function would be taken over by the parental factor. In this hypothetical case there would be no gain in the efficiency of prediction by including both the parental factor and the individual factor—the two together explain no more of the variance than one alone. Similarly, where the correlation between factors which we were not able to obtain and those where we have been able to get information is high but imperfect, there is little chance of any real gain in efficiency of the prediction instrument. No gain in efficiency is afforded merely because the factors used are nearer to "causes" than others.

V.83 The only other data which we were able to obtain regarding home conditions was the subjective judgment of the home visitor, police or probation officer. We regard these data as of little validity for our purposes. Our reason for this was that different assessors might look for different things. Some might be impressed by the cleanliness of the home, others by comparative wealth of possessions, others by accommodation standards or even the church-going habits of the parents, whilst others might attempt to assess the tensions or goodwill within the family circle. None of the assessors stated upon what grounds they made their assessments in sufficient detail for facts to be abstracted. Since we seek to throw light upon an individual by comparisons with other individuals, and not by reference to each individual alone, we need facts which can be compared and added together for a large number of cases. These sorts of data could be obtained from the visitors' reports only by taking an overall view of the material, which in turn demanded the interpolation of a further stage for interpretation. It will be recalled that we have discussed the Governors' and Housemasters' assessment in such a form. We give below the data resulting from a similar overall judgment of the visitor's reports of home conditions

TABLE 88

Assessment of home conditions, analysed according to criterion

Assessment	Succ	esses	Pail	ures	Total	
Good Fair Bad No information	No. 120 87 83 36	% 57 48 46 29	No. 90 117 97 90	% 48 57 54 71	No. 210 204 180 126	% 100 100 100 100
Total	326	45	894	55	720	100

V.8.1 It will be seen that the only class which discriminated between nucesse and failures was that rated as "good". There was no significant difference between the success rates of those classes of homes which were classed as "fair" and those freakly stated as "bad". This may mean that the visitors were inclined to be a little too guarded in their comments, being risted to give a rating of "fair" where conditions single freasonably have been stated to be "bad". If there was no difference between "fair" and "bad" it does not seem likely that any finer gendings of home conditions would exceed the property of the control of the conditions of the conditions of the conditions of the conditions of the property of the conditions of the conditions

Number of rooms in house. Number of persons in the family.

Number of persons in the farmly.

Number of siblings born and living.

Number of siblings in household.

Whether house, part house, self-contained, tenement, etc. Whether both natural parents living at address and if not what are the

whether both natural parents fiving at address and if not what are the circumstances—working away from home, father in Forces, divorced, separated, etc.

Number of wage-earners in household.

Whether mother working full time, part time or not.

Who is responsible for domestic catering.

Occupation of father and some indication of the income of the household

Rating data might cover such things as, for example:

Relationship mother/lad.

. . . etc.

Relationship father/lad.

Relationship with siblings, Relationship mother/father.

Cleanliness of dwelling.

Material comfort of house, Parents attitude to lad's crime.

Estimates of nature of home discipline . . . etc.

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V.85 At present very few facts can be obtained for any one case from completely unsystematic reports. The systematising of the report form should itself help in making the reports more valuable. It would make interpretation easier and more certain.

V.86 The requirement to discipline themselves into looking for specific facts should not hinder visitors in their reporting of factors which do not appear on the prompted list of items which they must consider in every case. There is no reason why, in addition to assessing details, they should not continue as at present to make an overall judgment. In fact, the value of the overall summary would be enhanced by the detail.

V.87 It is possible to look at the categories of home which the visitors tended, on average, to rank above or below the normal by weighting Good as 3, Fair as 2. Bad as 1 and calculating averages. These data are given below:

TARLE 84 Tune of household of Borstal bous, analysed by average assessment of home conditions-"Good" given a weight of 8, "Fair" a weight of 2 and "Bad" 1

Living at/with/home conditions	Average assessment of home conditions	assessment Number as of home base*		
Father and mother alive and living with	2-425	83	34	
Father, mother and siblings	2-173	202	209	29
Father, stepmother	1.941	17	17	2
Mother, stepfather	2.071	28	29	4
Mother only, no father	1-908	93	95	13
Father only, no mother	1-981	29	80	4
Institution or H.M. Forces	1.944	54	65	9
Lodgings, relations or inlaws	2-077	65	79	11
No fixed abode		_	66	9
No information	num.		83	12
Others	1.700	10	13	1
Total	2-051	581	720	100

<sup>\*</sup> Total excluding No Information and Does Not Apply.

V.88. In this table we retain the order previously used on similar analyses so that comparisons may be readily made. It is more informative, perhaps, to rank the types of home according to the mean assessment of the visitors.

Father, mother and one child			2.42
Father, mother and siblings			2.17
Lodgings/relations or in-laws.			2.08
Mother and stepfather			2.07
Institution or Forces	- 1	- 1	1-94
Father and stepmother	- 1	- 1	1.94
Father, no mother	- 1	- 1	1.98
Mother no father			1.00

V.89 It seems that "broken homes" are rated on average below unbroken momes, and indeed it seems lower than no home at all. This conflicts with the findings shown, for example, in Table 20, when we noted that broken home were as good an indicator of success as normal homes and that it was only the complete lack of home ties that detracted from resettlement chances. Thus the assessors seem to tend to assess with respect to factors known to be prognostic of delinquency—see, for example, Table 20) but not necessarily with respect to factors proposite of success or failure offer delinquency. In many cases the same factor may be that the special control of the seems of the same factor may be that this applies to the factor in this particular case there is no evidence that this applies to the factor factor being successful of factor being associated with the former but not the latter was that of religious professions already discussed.

### THE HOME AREA

V.30 Little is known of the area of residence of Borstal boys. We have already examined the relationship between the age of their first recorded erime and various characteristics of the town in which they were living at the time comment then much applies to considerations of the same damped of our comment then much applies to considerations of the same of an applies to considerations of the same of an applies to considerations of the same of an applies to considerations of the industrial indicates of success or failure. Only one factor showed any possibility of a consideration of the same of the sam

in terms of the age of entry into crime, it seems that we should reproduce here further tables of these factors even though they do not show any significant association with our criterion. They possess no merits of their own, except to afford a basis for further work or for comparison with previous research. V.92 Table 35 below records the data analysed by town size; London, accounting for so large a proportion of the total, is shown separation.

TABLE 35

Size of town in which the Borstal boy was resident at time of Borstal crime,
analysed by criterion

Population of town	Succes	8	Failur	•	Tota	1
	No.	%	No.	%	No.	%
Under 10,000	291		821	/*	61.)	,,,
10,000-19,999	20 > 58	47	20 > 65	58	40 - 123	100
20,000-29,999	9)		18		22	
30,000-39,990	73		73		143	l
40,000-90,999	50 > 190	50	58 > 191	50	112 > 881	100
100,000 +	124		131		255 )	
London	65	44	82	56	147	100
No information	18	19	56	81	69	100
Total	326	45	394	55	720	100

Grouped x<sup>2</sup>=1-520 for 2 degrees of freedom P between 0-50 and 0-30 V.93 Table 36 shows the average rateable value a head of the population of the town in which the lad was resident at the time of the crime for which he was committed to Borstal. The rateable value a head is, as we have noted earlier, correlated with the wealth of the town.

TABLE 36

Rateable value a head of the town in which the Borstal boys were resident at
the time of the Borstal crime, analyzed by criterion

Rateable value	Succe	n	Fallur	e	Total	
	No.	%	No.	%	No.	%
£2	1)		-1		1)	
£3	4 45	52	6 42	48	10 87	100
£4	17 (45	52	14 ( 42	40	81 787	100
6.5	28	i	22		45	
£6	58)		60)		118)	
27	28		32		60	
£8	66 176	50	54 178	50	120 3854	100
£9	15		17		32	
£10+	14)		15		29	
London	65	44	82	56	147	100
Rural	27	42	37	58	64	100
No information	18	19	55	81	68	100
Total	826	45	394	55	720	100

Grouped x<sup>5</sup>=2-255 for 8 degrees of freedom P between 0.70 and 0.50

V.94 In this table both London and rural districts have been treated separately. This is because the basis of rating valuation for London and rural areas differed. It is interesting in passing to note that, although shout 20% of the polarization of Eogland live in rural areas, rather less than 10% of the Borstal sample were living in rural areas at the time of their crime. This may be because rural youths who commit crime gravitate towards the towns where they are not likely to be known, or it may be that crime (which leads to Borstal) is est perventent in rural areas. If the latter is true, then this is another example of a factor which helps to discriminate the delinquent from the consecution of the conse

V.95 In the future it may be possible to study ecological factors in more detail. The "Joindex" by the where herefored, might help, as also might the Census Social Class Classification.<sup>40</sup> Ecological factors in the human field are seldom simple factors—poor people live in poor areas and poverty is associated with many factors. If ecological factors are studied from a fine of the control of th

## SCHOOL LIFE AND ABILITY

96

V.96 In common with most workers in this field we found that there was an association between trusney and failure, but there seemed to be no association between educational standard reached and our criterion. School renorts.

which now form a standard part of every Borstal File, were not available in more than half of the files studied, and amongst those who had no school report the failure rate was much higher. The absence of data in this case may mean that the degree of association found is smaller than that which would have been seen in the event of it heing available in all cases, but no other bias seems likely.

V.97 School reports, like visitors' reports of home conditions, were in large measure unguided and unsystematic. No specific questions were asked about transvy, and we could note this factor only lift were recorded. Whether or but the condition of the condition

We give the data available helow.

TABLE 37

Information available from school reports,
analysed according to criterion

	Successes		Failures		Total	
Good )	No. 29)	%	No.	%	No. 48)	%
Poor   no reference to truancy   Good	44 28	62	20	28	55	100
Fair evidence of truancy	15	55	9 18	45	24 36	100
No information	191	39	805	61	496	100
Total	326	45	394	55	720	100

TABLE 38

Educational standard analysed by the criterion

Educational standard	Succ	Success		ште	Total		
Good Fair Bad No information	No. 6 18 14 288	% 60	No. 8 13 9 869	% 40 56	No. 9 31 228 657	% 100 100	
Total	326	45	394	55	720	100	

#### INTRITIGENCE

V.98 On entry to Borstal each youth is submitted to the Columbian test of general intelligence. The analysis of the data is given below.

TABLE 39 Columbian test score, analysed according to criterion

Score	Sues	cuses	Fail	Total		
	No.	%	No.	%	No.	%
Over 90 80-89	18 51	50	15	50	105	100
80-89 70-79 60-69	64	47	65 74	58	129	100
50-59	41	47	46	53	87 63	100
40-49 80-89	21	48	20 1	52	41	100
20-29 10-19	7	50	5	50	12	100
Under 10 No information	12	18	53	82	65	100
Total	326	45	894	55	720	100

Grouped  $\chi^2 = 2.59$  for 1 degree of freedom P between 0.20 and 0.10

V.99 There is clearly no significant association between intelligence level as measured by the Chumbian test system and excess rate. The Gluecks found some association (0-14) with a hybrid system of cleasification which they referred to as intelligence, and it accordingly seems that such association as they found was due, if significant, to the factors which were confounded with those of intelligence. On the other hand it may be suggested that the more intelligent may manage to avoid arrest for some time, and that our short follow-up period may give rise to some bias in this respect. Any correct the control of the

do so well after release from Honstal as the average or out.

"LOD We can plot the service of th

V.10. It seems that if we exclude the few who were very much above the verrage intelligence (for Boratal book) and those who were very much below, there is little association between crimes taken into account and intelligence. It is then interesting to compare this table with the preceding one. The numbers are too small to have any statistical significance, but it is interesting to note that the angestion of curvilinear association of access with intelligence vanishes if we modify the results in terms of the possible effect of undetexted crimes unon the orterior. There was, however, no simificant difference crimes unon the orterior. There was, however, no simificant difference

between success rates in the different intelligence groups, either unmodified or modified by this consideration.

TABLE 40 Columbian test score, analysed according to the number of crimes taken into account at time of Borstal committal

Test score	Number in group	%	Average number of crimes taken into account
90-99	83	4-6	4-1
80-89	105	14-6	3-4
70-79	129	17-9	8-1
60-69	185	18-7	3-1
50-59	87	12-1	3-2
40-49	68	8-8	3-1
30-39	41	5-7	2-4
under 80	62	8-6	2.7
No information	65	9-0	_
Total	720	100-0	

WORK AND LEISURE (a) Work

V.102. The classification of work record and types of employment was attempted in various ways since we considered that in these types of data we should find our best material for prognosis. Whilst these kinds of data do afford the best prognosis for any single type of data the basic data from which we had to abstract our requirements were poor, and considerable difficulties were experienced in handling and classifying. In this experience we were not alone. It will be remembered that the Gluecks lost nearly half (48%) of their 500 Criminal Careers when they assessed them with respect to "work habits". Indeed, we were somewhat more fortunate in losing only 22% to one of our systems of classification.

V.108 For reasons which we have gone into in more detail earlier, we were not prepared to rate "work habits" or "job record". We sought reproducible objective systems of classifications which were entirely independent of our skill (or lack of skill) as assessors. Classifications based on the type of work were not found to be very useful. We did not consider that the Borstal boys had opportunities of obtaining the better types of employment because of their previous criminal career. Their crime record, beginning quite often before they finished full-time schooling, would have interacted with types of employment. The vast majority came from unskilled and labouring work, and the same technical difficulty as was discussed under the analyses of types of crime again obtruded.

V.104 Because of these and other considerations, which we need not go into in detail, we adopted two systems of classifying previous job record (i.e. prior to Borstal training). These were:

(a) average duration of job.

(b) longest period in any one job.

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V.105 For our first analyses we worked fully on both systems, and subsequently rejected (a) from the prediction equations. Some of the reasons further reasons we shall give here.

100 for this we have discussed when dealing with general principles and some

V.106 The basic data are given as Tables 41 and 42 below.

TABLE 41

Average duration of jobs, analysed by the criterion

Average duration of jobs	Success		Failure		Total	
10+ months	No. 78 l	%	No. 38 )	%	No.	%
9 "	18 108	62	9 65	88	22 171	100
7	27	57	12 70	48	23 89 182	100
5 n 4 n 8 n	24 30 22		29 570 17 28 )	-	58 5162 47 48 1	1
2 " 1 month	11 41	41	22 60	59	33 101 20	100
No employment since school	7		7		14	
No information	80	29	192	71	272	100
Total	826	45	394	55	720	100

Grouped  $\chi^2 = 12.63$  for 2 degrees of freedom P less than 1% level ro = 222

TABLE 42

# Longest period in any one job, analysed by the criterion

Longest period in any one job	Success		Failure		Total	
More than 18 months 1 year to 1; years 9 months to 1 year	No. 96 66 182	% 59	No. 85 47 112	% 41	No. 161 113} 274	% 100
6-9 months 4-6 ,, 3-4	52 87 18 1	46	56 80 28 10	54	110 67 46 11	100
2-3 ,, 6-8 weeks 4-6 ,, Less than 1 month No employment since	$\begin{bmatrix} \frac{7}{2} \\ \frac{2}{4} \end{bmatrix}$ 13	28	14 5 8 6	72	21 7 8 10 48	100
left school No information	4 89	25	4 119	75	8 158	100
Total	828	45	894	55	720	100

Grouped x<sup>1</sup>=19-71 for 2 degrees of freedom P less than 1% level ro = 258

V.107 It will be seen that we could not establish the average duration of jobs in more than 74% of the cases, and that we lost 22% of our cases in the attempt to classify according to the longest period in any one job. In these latter cases this was almost always because no work history sheet appeared in the files. This deficiency was largely due to the aftermath of the disorganisation of the Borstal system during the 1989-45 war. Nevertheless, it seems to be difficult to get information of high quality about the work record of criminals. This may be due to the fact that too much is attempted. The work record of criminals falls into a different category altogether from that of other men, and this means that it is generally impossible to obtain an accurate and detailed statement. It appears that it would be worth while to give much consideration to this problem; to study what sort of information can be obtained and how reliable it is. It may be that a few (say three or four) items of information relating to work history, if accurately obtained and recorded, would achieve the same or better results than the all-too-often abortive attempts to build up a complete picture. That time devoted to this would be well spent is suggested by most of the criminological studies to which we have referred. The Gluecks, for example, found in "work habits" (a subjective assessment) a zero order correlation with their criterion of 0.48. This was, by a considerable margin, the largest zero order figure they found in their prereformatory factors. Although our zero order correlation for both the "average" and the "longest period" fall well below this, the correlations were still the highest amongst our pre-Borstal factors taken singly.

V.108 Clearly there is a high correlation between the longest period in any one job and the average for all jobs including the longest. Both factors were examined only in order that one might eventually be used. We wished first to find out which was the better. There were, of course, other considerations than the value of the zero order correlation to be taken into account. Operationally we would prefer the simpler of any two systems, and we also prefer the more prognostic and the more reliable data. In this case our requirements were not as conflicting as they might have been. We were most influenced by the fact that for the "average" we lost 272 cases whilst for the "longest period" system we lost only 158. Next, since in calculating the average we had to assume that all jobs, even of the shortest duration were noted, we felt that whilst the average would be preferable in that it contained more information, it was not necessarily preferable if some of this extra information were wrong. We could not estimate the likely error. It seemed probable that if jobs were omitted from the record the most likely omissions were those of short duration, and thus we might have lost important numbers from our divisors of time. In short, we felt more inclined to rely upon the simpler measure of job record than on any composite measure which presumed completeness of recording, and we thought that the job most likely to be recorded

## (b) Leisure

V.100 Well over half the cases were lost when we attempted to obtain data relating to leisure activities. No systematic strempts had been made to obtain information and the sources of data where these were available were varied. In some cases the police report included this item and in others the visitors' report. In some cases the data were clearly reported as being derived from a parent, for example, "His mother says.". The intonation, which

(if any were recorded at all) was that of longest duration.

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102 in the spoken evidence would make it clear whether this was or was not

expected to he taken seriously, was not indicated on the written report! No exclamation marks were noted, but instructions were given to coders that they were to omit any comments thus punctuated.

V.110 In general, it seems that any leisure activity was hetter prognosis than none at all. The data, which are of little value, however, are shown.

TABLE 43

Types of activity	Succe	88	Failu	re	Tota	al
None specifically stated Looking after animals Constructive hobbies/collecting Reading/study/night clauses, etc. Citub, organised group activities Sports playing Sports watching	No. 10 4 9 30 8	% 42 64	No. 14 2 3 2 7 3 17	% 58 36	No. 24 6 12 2 16 11 47	% 100
Cinema going Other No information	37 90 159	54 64 36	31 51 281	40 36 64	68 141 440	100 100
Total	326	45	394	55	720	100

V.111 In this respect, as in that above, it is felt to be particularly unfortunate that more data were not available. Types of leisure pursuits amongst "normal" adolescents show very interesting patterns that suggest that this class of data would be valuable. A chart showing these patterns, together with three items regarding employment, is reproduced from "The Employment of Adolescents" (an unpublished Social Survey report)(7) (Chart I, page 103).

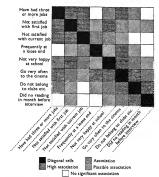
# PART IV

## MEDICAL AND PSYCHOLOGICAL FACTORS

V.112 Neither medical nor psychological reports were often available, and for this reason these data have been relegated to the end of this subsection, although under other circumstances they would have been presented and studied earlier. A study of the data where available revealed nothing of real value in this study. The psychologist's prognosis seems, however, to have some promise, whilst the medical data are of interest in that the results are

negative. V.118 The medical data were reduced to the simple dichotomy of some defect and no observable defect. There was no significant association between this classification and our criterion, although from our case history material such a result was unexpected. Table 44 shows the analysis.

Chart I Showing a pattern of factors in work and leisure as found in a general population sample of adolescent males



V.114 Psychologists' reports were available in 82 cases and a prognosis was identified in 65 of these. Perhaps the insignificant association between the TARLE 44

State of general health from medical record, analysed by the criterion

Physical grades	Suc	Success		lure	Total		
Some physical defects No physical defects No information	No. 63 167 96	% 60 58 29	No. 42 119 283	% 40 42 71	No. 105 286 329	% 100 100 100	
Total	326	45	394	55	720	100	

psychologist' assessment to personality and the criterion is due to the small sample, but the difference between the success rates when analyzed by this success that the success rates when analyzed by this control small in absolute terms as well as insignificant statistically. White the success of the suc

TABLE 45

Psychologist's assessment of personality, analysed by the criterion

Assessment	Succe	:55	Failu	re	Tota	ıl .
Very good Good Fair Poor No information	No. 9 3 32 16 5 21 278	% 70 58 43	No.  4 10 12 12 3 15 365	% 30 42 57	No.  13 33 46 28 3 36 638	% 100 100 100
Total	826	45	394	55	790	100

# $P_{\chi^2}$ lies between 20% and 30%.

V.115 When psychologists were assessing the likely chance of failure—more often expressed as the likely result of Joernal training or whether the lad would pass through the system unmodified in his behaviour or moral pattern—more success attended their assessments. Although only 60 cases were available the association between the property of the contract of the second training of the second training training the second training tr

TABLE 46
Psychologist's recomesis, analysed by the criterion

Psychologist's prognosis	Succes	18	Failur	e	Total	
	No.	%	No.	%	No.	%
Very good Good Fair	2 4 24 30	78	2 11	27	88 41	100
Poor Bad	10 11	46	10 18	54	20 24	160
No information	285	44	870	56	655	100
Total	326	45	394	55	720	100

Px2 less than 1%

success rate, even of those where the psychologist gave the worst prognosis, was above the average. This cannot very well mean that the interview is itself therapeutic, but is more likely to arise from the procedure of referral to the psychologist.

## A NOTE ON TABLES 41-46

V.117 Perhaps it should again be said that the period chosen for the collection of the basic data for this study was too soon after the war for the Borstal system to have become as highly organised as it would have been under normal conditions. The records which we were unable to trace and the data we would have liked to have found but which were not available are, in general, now available.

### PART V BORSTAL TRAINING

## RECOMMENDATIONS OF THE COMMISSIONERS

V.118 In all cases when lads are before the Courts and are being considered

for a Borstal sentence, the Prison Commissioners have an opportunity of stating whether, in their view, Borstal is or is not a recommended form of treatment. (Criminal Justice Act, 1948, Section 20 (7), or, for the time before 1948, the Prevention of Crime Act, 1908, Section 1). The Courts are in no way bound by this recommendation. About a quarter of the lads in the present sample who were eventually sent to Borstal by the Courts were not. in fact, recommended for this form of treatment by the Commissioners. This was the position in 1946-7 when the sample was drawn and may not apply today. In 61 cases in the sample we were not able to trace any information regarding the Commissioners' recommendation, but 158 cases were sent to Borstal notwithstanding the Commissioners' recommendation to the contrary; in 506 cases treatment was in accord with the recommendation. We show below the success and failure rates analysed according to the Commissioners' recommendation

TABLE 47

Whether recommended for Borstal training by the Prison Commissioners. analysed according to criterion

Recommendation	Succi	sses	Failures		Total	
Recommended Not recommended No information	No. 246 70 10	% 49 48 16	No. 260 88 51	% 51 54 84	No. 506 158 61	% 100 100 100
Total	826	45	894	55	720	100

V.119 The success rate amongst those who were recommended for Borstal training was 49% and amongst those who were sent to Borstal against the 106

recommendations of the Commissioners was 46%. There is no statistically significant difference between these two classes. This may be due to the fact that reasons for not recommending to Borstal may not be homogeneous. V.120 As Sir Lionel Fox in "The English Prison and Borstal Systems" (9) reports, "suitability" connotes (p. 300) that both the offender is in need of

prolonged training and he is likely to profit by it (see also p. 353). In the case of Reg v. Murray (16th October, 1950) the Court of Appeal said: "Because the Prison Commissioners report that a man is suitable for corrective training or preventive detention, this is not in itself a reason why the Court should pass such a sentence, but if they report that he is not suitable for corrective training, it is a very strong thing to disregard their opinion." In the case of recommendation for Borstal training, physical factors appear to be given considerable weight. There is no reason to expect the recommendations of the Prison Commissioners to be associated with the criterion. The Commissioners do not recommend Borstal as the "most suitable" treatment, but state only that Borstal is "suitable". Thus a lad may be "suitable" for various forms of treatment and none of them be more likely to lead to success than any other. How different treatments compare with each other in terms of the likelihood of a "successful" outcome is not yet known, and "suitability" involves many other factors of administration than this. For a fuller discussion of this and related problems see Chapter IX. V.121 The Commissioners' recommendations differed significantly with the

age group of the offender, more of those between the ages of 18 and 19 being recommended than was the average for other age groups. The analysis of the Commissioners' recommendations by age is shown below.

TABLE 48 Whether recommended for Borstal training by Prison Commissioners, analysed by age at committal

Age at committal	Recom	mended	N recomi	ot nended	inform		Te	tal
22 years 21 " 20 " 19 " 18 " 17 "	No. 7 34 56 91 95 154 62	% 71 74 80 75 69 56	No. 8 6 14 14 14 20 54 34	% 24 18 12 16 24 30	No. 1 2 6 9 11 16 16	% 5 8 8 9 7	No. 16 42 76 114 126 224 112	% 100 100 100 100 100 100
Total	499	70	150	21	61	9	710	100

V.122 There seems to be some suggestion that the Courts' action differed from the Commissioners' recommendation mainly in the committing of offenders of 16 years of age to Borstal, and less markedly in committing those over 20 years of age.

V.123 The Courts also differed from the Commissioners' recommended treatment in that they seemed to pay less regard to the age at which the lad entered upon his criminal career. The Commissioners seem to have recommended somewhat less frequently those who began their career of crime between 12 and 15. In this respect there is some association between the chances of the lad being encoessful and the recommendation as we have seen in earlier sections. Analyses of the age of the first Court appearance and the Commissioner's recommendation are given below.

TABLE 49

Whether recommended for Borstal training,
analysed by age at first conviction

Age at first conviction	Recomn	nended	recomm		inform		Tot	al
20-21	No.	%	No.	%	No.	%	No.	%
19 18	21 80 >		1		2		24	
17	49	76	11	19	2 2	5	62	100
16	55	1	19		5		79	
15	585		28 7		187		895	
14	52	67	19	28	6	١	77	
18	51	67	14	28	آ-بة ا	10	717	100
12	51.		15		5)		71	
11 under 11	48 )	69	177	20	67	11	717	100
No information	70 7		18∫		18 🖍		101 5	100
No intortuation	11		8		_		14	
Total	506	71	153	21	61	8	720	100

V.124 Unfortunately, the numbers in each separate age group were too small to enable us to say whether there was any difference between individual years, or whether the difference between the 20% not recommended in the group who began their criminal career before 12 years of age differed from the 19% who did not begin until over 16 years of age. The apparent differences between the groups in the column headed "Recommended" may only be due to the changing values in the "No information" columns. This is an example of the way in which lack of information may affect our results. We note that the proportion of cases unknown increased as the age at which the youth entered upon his career of crime decreased. This may mask any association there may be between the Commissioners' recommendations and this factor. If we assume that the "No information" category were distributed at random between the two classes with probability proportional to the numbers in those classes, we derive the figures for the proportion recommended in each of the three age groupings, 79%, 72% and 77%. This slight tendency for the Commissioners' recommendations to drop for the centre group is interesting, but it may not be a real or significant factor. V.125 The Commissioners' recommendations were considered in relation

with the time which the youth was detained in Borstal training. There was

no significant difference between the duration of training and whether or not the lad was recommended for such treatment. The basic data are given below.

TABLE 50

Whether recommended for Borstal training by the Commissioners, analysed by the time detained in Borstal training

Time in Burstal (months)		Recom- mended		Not recommended		No information		Total	
22 or more 18-21 15-17 Up to 14 No information	No. 116 184 142 114	% 76 76 80 74	No. 36 42 35 40	% 24 24 20 26	No. 	<u>%</u> <u>-</u>	No. 152 176 177 154 61	% 100 100 100 100	
Total	506	71	158	21	61	8	720	100	

V.126 It would be possible to carry out some five or six thousand tabulations of different kinds on the basis of the data of this survey, and there are

some 60 different analyses possible against which we could examine the factor of the Prisson Commissioners' recommendations. It would be uneconomic to make anywhere near all the possible comparisons. Perhaps the selection of times against which we have studied the recommendations are an unerpresentative sample, and perhaps if we were to study more and different analyse to we might find factors with which this is correlated. It may be unasyes to generalise about the recommendations on the basis of the analyses to far made, but, pending further hypotheses, there is only one further analysis which we propose at the moment to make. In this we examine the association between the last's institutional background and the Commissioners' recommendations.

TABLE 51

Whether recommended for Borstal training by the Prison Commissioners, analysed by whether the youths had had institutional experience

Whether in an institution	Reco		recomm		inform		Te	otal
Institutional record No record No information	No. 84 409 13	% 68 79 17	No. 40 109 4	% 32 21 5	No.  61	% 78	No. 124 518 78	% 100 100 100
Total	506	71	153	21	61	8	720	100

V.127 There is thus some suggestion that the Commissioners do not recommend so frequently those who have had some institutional experience (other than Approved School).

ALLOCATIONS
V.128 When a Borstal sentence has been imposed, the lads proceed to a Reception Centre, where they are observed for a period of up to three months,

and then allocated to the type of Borstal which it is considered will be most likely to have beneficial results.

V.129 In the previous section we found, perhaps rather disappointingly, that there was no significant association between the noise for those who were and those who were not recommended for Boretal ratinity. Wifined, however, a most striking difference between the success ratinity for the Borstal Institutions to which the lads are sent. The messes rath for the Borstal Institutions to which the lads are sent. The messes rath for the Borstal Institutions to which the lads are sent. The messes rath for the Borstal is more than twice that of the worst, excluding the result cauth Endemand at Portsmouth. If we divide the Borstals into two types, the "open" and the "closed", we find also a most authential difference in the ancess rather than the "closed". We find also a most advantaged and the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, whilst the "closed" Borstals taken together had a success rate of \$8%, while the "closed" Borstals taken together had a success rate of \$8%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate of \$9%, while the "closed" Borstals taken together had a success rate

TABLE 52

Borstal to which allocated, analyzed by criterion

Borstal	Succes	ses	Failu	res	Tot	el.
Hewell Grunge Gringley	No. 15 5	% 70	No. 8 2	% 80	No. 18 7	100
Hollesley Bay Huntercombe Lowdham Grange	29 } 40 }	60	27 J 15 ) 29 }	40	81 44 69	10
Gaynes Hall North Sea Camp Usk	21 20 21 21 21 21 21 21 21 21 21 21 21 21 21	43	28 82	57	88 43 \ 58	10
All "open"	205	58	148	42	853	10
Feltham   Camp Hill   Portland	23 } 32 }	45	25 } 42 } 45 ]	55	48 }	16
Borstal Nottingham	18	80	43 }	70	67 61 59	16
All "closed"	111	86	198	64	809	16
No information	10	17	48	88	58	10
Total	326	45	894	55	720	10

V.180 The first group of institutions in the above table may be roughly classified as "open" Borstals, whilst the second part of the table includes the "closed" institutions. Within each class, the individual institutions have been put into the order of the assocses rate. Little may be said about the success rate for any particular institutions, since there will be large chance variations between institutions and a nucesar rate of 70%, may vary between 55 and 85%, due to the chance fluctuations of sampling if we regard our sample as a sample in time and not a sample of one in three of the intake. There is a sample in time and not a sample of one in three of the intake. There is between institutions, and that there is an important significant control of the "open" and "closed" illowed the control open and the control open and

V.181 Since in a sample of this size three is likely to be some considerable variation due to chance factors alone, it is interesting to compare the sample figures with those derived from the November 1962 report of the Prison Commissioners (for the year 1914-9), or the dates given in Table 38 below, and collecting together the "open" and "closed" Borstals as shown in our Table 53, when that the figures from the value of the prison of the prison

TABLE 58
A comparison of sample with total figures of success and failure

Borstal	Number discharged	Not reconvicted	% not reconvicted	Sample % from Table 52
Howell Grange Gringley Hollesley Bay (1947-9)	156 (?) 1069	120 ? 649	68	70
Huntersoombe Lowdham Grange Gaynes Hall	287 906 179	169 455 114	56	60
North Sea Camp (1947-9)	584 727	817 } 408 }	57	48
All "open"	8808	2232	59	58
Feltham Camp Hill Portland	700 443 1828	809 207	45	45
Borstal Nottingham	989 927	308 344	82	80
All "closed"	4382	1563	36	86
Source—Be	nort of the Pris	son Commissio	n 1951	

V.132 The comparison between the sample and the totals is not completely valid since the dates vary slightly and we had a proportion of unknown cases. The most interesting point brought out by the more reliable figures derived from the large numbers is that whilst we found the "open" success rate "abaded into" the success rate for the "closed" institutions, the totals show a fairly clear break.

V.158 Are we then to assume that the Open Borntal system represents a better form of treatment than the "closed"? This is aimset certainly the case, but unfortunately there are two meanings which may be attached to the case of the control of the

("open","closed") and sorbing is known about the effectiveness of allocation procedures within these categories, i.e. between individual institutions. The magnitude of the difference between the "open" and "closed" Borstals for is such that it seems that we must conclude that "open" Borstals have a greater reforming influence upon the lack in their charge even atter making reasonable allowances for the better material upon which they have to work, but we shall examine this assumption.

V.134 It is in the assessment of what may be regarded as "reasonable allowance" for the "class of material" upon which different treatments operate that the prediction system may be of operational utility. We have accordingly taken the problem of the efficacy of "open" and "closed" forms of treatment as a test case example. We may assume that by using the prediction table based on experience available before committal we have a system of classification for risk of failure. If then we classify the youths according to this system without regard to the form of treatment they are to receive. we are forming an assessment of the type of lad upon whom the reforming influence of either "open" or "closed" institutional systems will be operating. Thus if we find that lads in the 20% risk of failure group emerge from closed Borstals with 30% risk of failure and from open Borstals with 10% risk, we can assume that a real difference exists between the reforming influence of the two systems which is not accounted for by the type of risk sent to the different treatments. A statistical procedure\* known as the "Analysis of Variance" will test whether the differences are such that they could occur by chance and will also tell us whether there is a significant difference between the material and the treatment of the two systems. The type of "material" is not, of course, completely specified by the equation, but it is an independent and repeatable system of classification. It is verified with reference to the same data as that to which it is being applied and thus forms a system for splitting the groups or sub-groups about their mean, as indicated by our example above where the 20% failure risk group represents the "open-plusclosed" calculated risk. We show first the results of the analyses of variance and, after some discussion of these, present a simpler example for those who may be unfamiliar with this technique. The resulting analysis is shown below.

TABLE 54

Type of Borstal and criterion, using failure score as estimate of the material upon which the treatments operate

	Degrees of freedom	Mean Square (Score)
Type of Borstal	1	1869-5
Criterion (due to "allocation")	1	4155-8
Residual (Error)	1	5-6
Total sum of squares	3	5530-4
Variance ratio	_	1869·5 5-6 == 244

This will be recognised as a form of a positori experimentation.

(significant)

V.135 Thus the "open" Borstals do get "hetter material" upon which to work their reforming influence, so far as the experience tables enable us to classify the new entrants into risk groups. But, over and above this, the results show that there is a fair amount of the variance which may be accredited to the type of treatment-or, in other words, those who are sent to "open" Borstals do better than the prognosis suggests, whilst those who are sent to "closed" do worse. We thus have evidence that the Allocation Centres are, in fact, sorting out their material with the result that the "lesser risks" are being sent to "open" institutions, and that the better results are not completely explained by this fact, although both factors are working in the same direction. This is, perhaps, not absolute proof that "open" treatment is better than "closed", but it is extremely near complete proof. A similar analysis could provide the rigorous proof which this lacks due to incompleteness of the data, and the resulting uncertainty of the specification of risk groups which are independent of the factors studied.

V.136 For those who may fail to follow the argument based on the analysis of variance the basic figures may be presented simply, as follows: Our Category A had, as we have said, an overall success ratio of 7:1 and our Category B a similar rate of 2:1. Combining these groups A B and similarly combining the opposite end of the scale, we have three groups-A B those with above average chance of success, the centre group with average chance and those with below average chance of success. A total of 127 cases fall into A B category, 38 of whom were allocated to "closed" institutions, with 22 emerging as successes, whilst of the 94 allocated to "open" institutions 73 emerged successful. Thus for group A B (where the prognosis was good) the rates for the two types of treatment were: "Open", 78 out of 94 or 78% successful; "Closed", 22 out of 88 or 67% successful. We may make similar calculations for the three groups as follows:

TABLE 55 Prognosis and tupe of treatment analysed by criterion

Prognosis		Type of 1	nstitution	
Prognosis	"OF	en"	"Clo	sed"
Good AB Average X Poor CD	Successes 78 55 15	Failures 21 35 24	Successes 22 89 17	Failures 11 80 43
Total	143	80	78	84

Similarly the percentages hased on the above table are:

Prognosis	"Open" success rate	"Closed" success rate
Good AB Average X Poor CD	% 78 61 38	% 67 57 28

tently better success rate. The bad prognosis cases and the good prognosis cases. perhaps surprisingly, show a similar improvement. This is the more interesting since we have shown (Table 51) our sample did not have an atypical rate for success for "open" or "closed" institutions. V. 138 Further analyses of this kind are held over until we have examined

the remainder of the data in its elementary forms.

#### AGE OF COMMITTAL

V.139 The statutory age limits for admission to Borstal were 16 and 23 years at the time to which this study relates, but in fact no lads of 28 years were found in the sample. Most of the youths were in the middle of the age range, 17 being the modal group. Analysis of the age at committal by our criterion of success shows no significant difference with age. These basic data may be of interest because of this lack of association with the criterion, and we accordingly give the tabulation below.

TABLE 56 Age of committal, analysed by success or failure

Age at committal	Succes	5	Failur	e	Total	
23+ 22 21 20 19 13 17 16 Under 16	No. ————————————————————————————————————	% 50 43 39 45 50 45	No. 5 24 29 43 70 69 113 59 3 62	% 50 57 61 55 50 55	No. 16 42 58 76 114 126 225 109 3 112	% 100 100 100 100 100 100
No information	1		8		9	
Total	326	45	394	55	720	100

V.140 We have earlier shown that the type of home background had little association with our criterion. It may now be of interest to record the age at which the lads were committed to Borstal in terms of the same factor. It may be thought that the home background might be seen to be a more important factor here. This is in fact not so. Average ages have been computed for the different categories because the average makes the most efficient use of the small numbers in some of the categories.

TABLE 57

Home background, analysed by average age at committal to Borstal

Home conditions Living at/with	Nur	nber	Average age at committal
Wife and child/children Living alone in own house Father and mother alive and living with Pather, mother and siblings Father only, no mother Rother, stepmother Mother only, no father Mother than the mother and the mother Mother stepmother	No. 11 2 34 208 30 17 95	% 2 - 5 29 4 2 18	Years 19-5 20-0 17-5 17-8 17-9 18-0 18-0
Lodgings/relations/in-laws No fixed abode No information	65 79 66 83	9 11 9 12	18-6 17-9 18-4 18-5 18-0
Total	720	100	18-0

whose family had a record of crime tended more frequently to be sent to Borstail at an earlier age. The detailed analysis is shown below Whilet this analysis on its own is not particularly enlightening it becomes more so when we look a little deeper into it. We bring in first another analysis and then relate the three together to show this point.

V.141 Analysis of the information relating to family criminal record with age of committal to Borstal did, however, show a definite trend. Those

TABLE 58

Age at committal to Borstal, analysed by family criminal record

Age at	Age at Family criminal record?					
committal	Yes	No trace	Not known	with family record %		
16	27	66	16	29		
17 18	45 24	161 91	18 11	22 21		
19 & over	35	207	19	14		
	131	525	64	20		

<sup>\*</sup> Excludes "not known" cases.

V.142 Now age at committal and the criterion showed no association (Table 50) whilst the criterion was also not significantly correlated with family crime record (Table 81). Let us denote these factors by letters, as follows: (a) = second training crime record (Table 83). Let us denote these factors by letters, as follows: (a) = second training criterion (b) = second training criterion (c) = second training constant (c) = second training criterion (c) = second training crit

some significance. We write these correlations, and may suggest each is of possible significance because the one we have just analysed interacts with the

earlier ones, thus: Hupothesis A r ab.c of slight significance and tending to suggest that the

earlier the committal the less the chance of success if we ignore family crime. of slight significance and tending to suggest that family Hypothesis B r bc.a

crime and failure are associated if we ignore the younger age of committal. This is, of course, an obvious result, since (a) is insignificant and taken as

Hypothesis C r ac.b

into account.

of slight significance and tending to suggest that age of committal and family crime record are associated (as shown) if the criterion is held constant. This also is an obvious result.

Which is the more meaningful suggestion is not clear. We can choose either early age of committal as prognostic of failure or family crime record, but we cannot add in both. This affords a very good illustration of the inefficiency of zero order correlations and the use of them as factors without considering "overlaps". In this case both the factors

(a) age at committal

(b) family criminal record would separately show no association with the criterion because their effect was suppressed by another factor-namely the inter-association of the two. The degree of association is small, but it is a reasonable expectation. Any use of these factors for prognosis is, however, of doubtful value. It might be suggested that those lads who had a family crime record might be "picked up" by the police rather more quickly in their criminal careers, and it may be only this factor which gives rise to the correlations. Using crimes taken into account as an indicator of differential detection as before, we show below the results of analysing family criminal record by the number of offences taken

TARLE SO Family criminal record and crimes taken into account at Borstal sentence

None 45 19 192 80 3 1 1-2 1-2 46 21 172 78 3 1 8-4 18 22 65 78 — - 5 or more 21 18 90 79 3 3		
None 45 19 192 80 3 1 1 1-2 46 21 172 78 3 1 1 8-4 18 22 65 78 — — 5 or more 21 18 90 79 3 3	Total	
No information 1 6 55	No. 240 221 83 114 62	% 100 100 100
Total 181 18 525 78 64 9	720	100

116

V.148 We have shown earlier (Table 58) that those with family records were younger when they were convicted for the first time, but the number of exims taken into account at the Borstal sentence do not suggest that the lads from bones with a crime record had committed fewer crime before they were arrested—at least they did not ask for any fewer to be "taken into account" from our partial correlation calculations, i.e. family crime is a factor affecting failure, and the earlier age of committal is only a further reflection of that fact, they are the summary of the summar

#### BEHAVIOUR IN BORSTAL

V.144 About two-thirds of the lads in the sample were in trouble whilst in Borstal for some misdemeanour, and a fair proportion were in trouble several times. About one-third had absconded once or more, but only 8 cases out of the total sample (1%) committed further crimes whilst away and received

TABLE 60
Misdemeanours in Borstal analysed by success and failure

Misdemeanours	Succes	8	Failu	e	Tota	1
None 1 2 3 4 5 6 7 8 9 No information	No. 132 71 40 24 17 9 4 2 6	% 59 50 45 41	No. 91 70 48 85 30 20 14 11 7	% 41 50 55 59	No. 223 141 88 59 47 29 18 13 13 26	% 100 100 100 100
No information	10	16	53	84	63	100
Total	326	45	394	55	720	100

TABLE 61
Abscondings from Borstal analysed by success and failure

Abscondings	Suec	ess	Fai	lure	To	ital
None 1 2 or more Committed crimes while away and received	No. 286 41 86	% 53 37 40	No. 213 71 54	% 47 63 60	No. 449 112 90	% 100 100 100
further sentence No information	3 10	16	3 53	8.7	6 63	100
Total	326	45	39.1	53	720	100

further sentences. Both factors are associated with our criterion of success, with misdemeanours having the slightly higher degree of association. Tables 60 and 61 show these data.

V.145 It is interesting to note that there was no significant difference

Valves in a successing of lotter that, there was no significant under one of the way to significant under one of the way to significant under one of these who had alsoended one only. The success rate for those who had no record of absconding (68%) was above the average, although it is true that these lasts who were sent to "closed" Boustain (where the rate of success is lower) would have less opportunity of absconding. It seems that these data is not successed to the success of the

the "dosed" institutions.

'Al48 Since absonding is a source of trouble to the Commissioners, the Bostatal Governors and, on occasions, to the public in the neighbourhood of the Bostata, it is interesting to speculate whether it would be possible to predict predisposition to abscond. The money available for the present study did not enable research to proceed very far along these lines, but some test analyse were made. From these it seems that although absonding was associated with higher flatter rate, absconding was not associated with these flattors. Table 2), age at first crime was associated with these flattors. Table 2), age at first crime was associated with the lattors analysis given below we find that the younger crime was commenced the likely were Bostal hops to abscond, the reverse of what might intuitively be expected.

TABLE 62
Absconding from Borstal analysed by average age at first crime

ommitted crimes while away and received further sentence	Nu	nber	Average age at first orime	
	No.	% 62	14-03	
None	112	16	14-19	
2 or more	90	12	14-87	
	6	1	12-00	
No information	63	9	12-94	
Total	720	100	14-10	

#### TIME IN TRAINING

V.137 Unfortunately, we have here a further confronding of factors which could be carted out, but which would require us to face exceed our terms of reference and an expenditure larger than that available for this research if the appropriate analyses were made. It is likely that those who began estimation crime were more often allocated to the "closed." Borstals by the Reception Centres and they, therefore, had less opportunity of absconding. The first order corrulations do not give us all the facts but seem to suggest that those eases which [according to one factor—age at first crime) were poor risks

absconded less, whilst it was known that those who absconded were worse risks than those who did not. It seems that it would be possible to provide a prediction equation which could determine the likelihood of absconding as efficiently as the equation we have derived for success or failure, but that the two equations would be materially different in respect of the items included and their appropriate weightings.

V.148 Whether or not a lid has absonded is doubtless a factor mitmening the Governor's decision as to how long he should stay in Borstal. Indeed this factor may be one of the prime considerations. There was certainly a high degree of association between the time the lad had been detained and his record of absconding. It is also likely that Governors will take into account other misdemensurs whitst underping training. We than absonding the contract of misdemannant (other than absonding to the number of abscondings and the time detained in Borstal training.)

TABLE 68
Misdemeanours in Borstal analysed by average time in Borstal training

Misdemeanours  None	Nun	nber	Average time in Borstal in months
	No. 223 141 88	% 31 20 12	15-5 months 17-2 "
8	59	8	18-9 ,,
4 or more	146	20	21.1
No information	63	9	No information
Total	720	100	17-7 months *

<sup>\*</sup> Excluding the 63 cases for whom there was no information

TABLE 64

Abscondings from Borstal analysed by average time in Borstal training

I 2 or more Committed crimes while away and received further sentence	Number		Average time in Borstal in months
	No.	%	
None	449	% 62	16-6 months
1	112	16	19-1
2 or more	90	12	21.8
Committed crimes while away and	1 1		1
	6	1	1
No information	63	9	No information
Total	720	100	17-7 months *

<sup>\*</sup> Excluding the 63 cases for whom there was no information

V.149 The sample of cases where sufficient information was available was not large enough to make more detailed analysis of the components of the decision to retain a youth in Borstal.

V.150 It would be more valuable if we ware able to abre when the large transfer in the same of the same way and the same of the same

V.150 It would be most valuable if we were able to show what peniod of Borstal training was most effective, or what was the minimum period possible without any material change in the rate of success. Unfortunately, it was not possible to go as fire as this in the interpretation of data available. We are provided to the state of the state of

TABLE 65
Time in Borstal training analysed by the criterion

Time in Borstal training	Succes	18	Failure		Total	
Up to 12 months 4 weeks	No.	%	No. 26 )	%	No. 65 )	
14 ,, 15 ,,	19 } 84 26 } 82 }	55	17 70 27 28 1	45	36 154 58 00	100
16 " 17 " 18 "	36 }95 27 } 30 ]	54	25 82 29 34 1	46	61 177 56 177	100
19 " 20 " 21 "	18 68 20 16	49	28 70 13 70 22 1	51	41 } 188 88 }	100
22 ,, 23 ,, or more	18 69	36	18 121 81	64	31 190 121	100
No information	10	16	51	84	61	100
Total	826	45	394	55	720	100

V.151 There was thus a significant tendency for the failures to have been detained longer. But it must also be remembered that in simple terms the average youth stayed in Boestal for 15 months, plus 1 month for every misdemeasour recorded whist undergoing Borstal training, and the record of misdemeanour is associated with the criterion.

V.152 Absconding was also associated with failure after Borstal training,

and we found that we was also associated with the duration of trainand we found that we was also associated with the duration of training. Nearly one-third office were also associated with the duration of training. Nearly one-third office were also as a superior of the previous appropriate reservations in mind the total particular of the third propriate appropriate reservations in mind propriate the previous analysis, we might examine the time of training a most of the third training and the superior of the propriate of t V.153 We have earlier used the experience table classification as a measure of the "material" upon which the reforming influences were required to work. Since the complex analysis involving this classification includes the simpler, we present only one table covering the main factors.

TABLE 66

Analysis of time spent in Borstal by type of Borstal, prognosis group and success or failure

	1			Type of	Borstal				
		"O <sub>1</sub>	en"			"Cle	sed"		
Score category		Time d	ictained			Time d	etained		Total
	Above a	verage	Below a	verage	Above a	verage	Below a	verage	
	Success	Fail- ure	Sucotes	Fail- ure	Success	Fail- ure	Success	Fail- ure	
A above B average	18	12	55	9	12	6	10	5	127
X average	24	20	31	15	25	18	14	12	159
C below average	8	12	7	12	10	27	7	16	99
Total	50	44	93	36	47	51	31	33	385

V.146. Summarising what appears to us to be the more important material from the above table, we may compare the success and failure rates experienced by risk groups for "open" and "closed" institutions, and for below and above average periods of detention. As will be seen, the numbers on which the rates are based are often small and will consequently have wide marring of grows.

TABLE 67

Comparison of time in "open" and "closed" treatment by category

		Proportion	successful	
Risk category		Type of l	nstitution	
	"O <sub>F</sub>	en"	"Cle	sed"
AB X XD	Above average 18/30=60% 24/44=55% 8/20=40%	Below average 55/64=86% 81,46=07% 7/19=87%	Above average 12/18=67% 25/48=58% 10/87=27%	Below average 10/15=67% 14/26=54% 7/23=30%

V.155 Thus comparing the within category success and failure results, we find that those who were retained for a period helow the average generally showed more successes in the trial period. We may arrange the results in order as follows:

"Open" Borstals, better results with class:

Open Borstals, better results with class:

AB from short period

X from short period

CD from long period,

"Closed" Borstals, hetter results with class:

AB from neither

AB from neither X from long period CD from short period.

V.150 Unfortunately, this sort of analysis is merely illustrative of what might be done with complete data, and when there are available sufficient cases to withstand the analysis simultaneously of the other factors which are associated with the duration of detention in Borstat. There seems to be a case for investigating whether the period of detention might not be reduced with no ill-effects upon the results of the treatment. A shorter period of detention, it seems, might well he sufficient for those lads who fall into classes A or B.\*

# GOVERNORS' ASSESSMENTS

V.157 We have seen that duration of detention was associated with misdemeanour and it is interesting to enquive how the misdemeanour of the lads affected the sort of report they were given by their Governors and how this fact may affect an appreciation and interpretation of these reports. The basis data are given in detail below (Table 68).

V.185 "The simplification of these data is again possible in terms of degree of association. The Governor's reports are quite strongly associated with the number of misdemeanours, as indicated by a contingency of 0-44. The similar coefficient (not xy) for the degree of association of the Governor's report with the criterion is 0-11. Let us suppose, however, that Governor's gnored mis-demeasours when reporting, the similar measure of the degree of association would then the 0-18 with the criterion. The difference is not great, but suggests of the control o

It will be recalled that economy forced us to sign a fixed that crictoria. This is designed that the control of the sign which have some very sulls deficient one results this discussion. Those lade who were related the length were exposed to the risk of failure for a shorter period than those who recalled the length of the sign of the recommendation of the sign of the recommendation of the sign of t

TABLE 68

				ď,	Success						~	Failure		
Number of misdemeanours in		Gove	Governor's report	rport		Total *	Average of	L	Gover	Governor's report	port		Total *	Average of
Borstal	Very	Good	Fair	Poor	Bad	successes	prognosis	Very	Good	Pade	Poor	Bad	failures	prognosts
	17	20	88	=	-	211	9.6	۰	27	25	17	1	81	8.8
	10	10	82	17	-	88	3-1	ı	23	21	18	01	62	9-1
	-	17	13	-	-	8	8.8	04	91	19	00	01	48	3-8
	69	9	91	9	1	2	3-5	-		15	9	-	88	90
	ı	60	-	*	01	16	2-2	1	00	80	-	-	ă	98
	ĺ	8	*	00	[	6	8-8	ı	60	10	4	-	18	25.8
	1	-	-	-	ı	00	3-0	1	œ	80	00	-	14	8:8
	1	1	04	ı	ı	04	3-0	1	ı	9	60	69	11	700
	ı	-	-	00	-		8:8	[	-	OR.	00	-	٠	5-4
	1	*	ю	24	ı	#	es es	I	-	00	-	00	14	ī,
Total	155	8	104	2	00	888	3:3	22	25	811	52	12	802	3.0
Average	9	.2	98	7	89	81		9.0	7.	72	3.0	6.9	kO Ok	

Misbehaviour, etc., should receive a weight, but even if given no weight the prognosis would have been better than that which resulted from its being given too much weight.

V.139. At the time that this study was made there was little other evidence relating to conduct in Borstal than that which we have examined. It was considered that the frequency with which letters were sent and received might indicate the degree of contact with the "outside world" but, unfortunately, record sheets were not maintained in a sufficient number of files for this evidence to be sent maintained: an audited number of files for this evidence to be sent maintained:

V.160 In addition a system of grading had been in use for some considerable time, but when this study was made there was no uniformity in recording the data and different Borstals operated the scheme differently. In future studies, grading should prove of considerable interest and value.

V.161 Objective evidence of conduct in the Institution might be of value in improving prognosis and might lead to further data of use in determining by objective analysis the optimum period of detention for different classes of lad. At the moment only subjective judgments are available to determine these actions, and, as we have seen, there is some evidence that the weight given to octatin factors is not the best possible weight. In other words, it is subject judgments were influenced by factors which, whilst not irrelevant, were taken too much into account.

#### PART VI

#### FACTORS ON DISCHARGE

V.162 The main weight of our analyses in this project has been given over to a study of the factors which were known before the youths were committed to Borstal. This was essential if we were to utilise information to build tables of experience of value rs prognostic tools.

V.166 It would, however, he a very incomplete story if we said nothing mose about what happened to our caster has was implied in our criteria of success and failure. A contribution towards filling in this gap in our story is made by the analyses which follow. The information we have been able to present affords no more than a sample of the material and may be regarded as examples of a field yet to be covered. The problems of restributent (which includes of a field yet to be covered. The problems of restributent (which includes the contribution of the contribut

## WHERE THE BORSTAL BOYS WENT ON DISCHARGE

V.168 Rather more than two-thirds of the releases went first to their bone, whilst a fifth went straight into the Services. In general, those going into the Services without first going to their home would either be unwelcome at their bones or have no home that they desired to return to. The highest successor rate was noted in the cases going first to their homes. The data are shown below.

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TABLE 69

Where the Borstal boy went on discharge,
analysed by criterion

Where he went on discharge	Suci	cess	Pail	ure	То	tal
Home Forces Other No information	No. 199 52 22 58	% 51 43 81 89	No. 192 69 49 84	% 49 57 69 61	No. 891 121 71 187	% 100 100 100 100
Total	326	45	894	55	720	100

x<sup>3</sup>=10-8 for 2 degrees of freedom P less than 1% level

V.165 A number, who went home first, obtained entry to the Services as their first employment on discharge. It will be recalled that the last in our sample were released from detention in 1947 and 1948. The proportion the obtaining employment in the Services was large. It is not known whether the proportion is today similar to that obtaining at the time of this project. The analyses of first employment on discharge is given below.

TABLE 70

Type of first job on licence,
analysed by criterion

Type of job	Suc	cess	Fail	ure	To	tal
H.M. Forces Unskilled Others No information	No. 144 92 37 53	% 49 45 45 88	No. 149 113 46 86	% 51 55 55 62	No. 298 205 88 189	% 100 100 100 100
Total	826	45	394	55	720	100

V.108 From this table it appears that the type of first employment obtained on discharge (so far as we may classify it at this staye) was not useful as an item of prognosis. It appears, for example, that those who entered the Forces were no more or no less frequently failures than those whose first employment was in civil life. The factors involved are not simple and this overall result inspire court fact or a masking of overlapping factors such as we and age of committal to Borstal. We noted in Table 66 (above) that those who went home first, but whose first employment was in the Services. The lads who went borne first, but whose first employment was in the Services. The failure score for the first group is (as shown) 57% and for the second part of the Services intake 47%. This is a significant difference. On the other hand

<sup>\*</sup> The Forces component is made up of Home and Forces 172, Forces direct 121, Total Forces 298.

the Services employ a selection procedure which may indirently screen so me of the cases who may apply for entry. If we compare those who wen known first and then into the Services with those who took civil employment, the Services show a slightly clerk agrigationally better success rate, but the numbers were too small to "hold constant" (and to disregard) the possible interaction of the factors of returning home and entry to the Forces. The influence of those complex factors seems to be small and we may conclude that, in all, Service if the dath or of the ray better chance of reaces, nor did it prejudice chances of the dath of the results of the complex factors.

V.167 In this case we have not made any attempt to classify the type of home to which the lad returned, since, again, any sub-analysis would reduce the numbers to insignificance.

the numbers to magnitudes.

V.168 The type of work that Borstal boys are able to take up is, of course, restricted by the very fact that they have a crime record. There is little controlled by the very fact that they have a crime record. There is little engineering the controlled the prepared to not often have "good jobs", since employers will seiden be prepared to a controlled to the proper has been been controlled to the prepared to the seident been been controlled to the prepared to the proper have been controlled to the proper have been to operate. The majority of lends of entry to Borstal come from usakiful cocupations and the majority return to such grades of work. The mailtness of the sample of occupations other than unskilled and the Services made it this to break down the octagories further than the three classes shown above. In Table 71 (below) we show the occupance that the turn taken up on licence and the occupation of the youth prior to Borstal to taken up on licence and the occupation of the youth prior to Borstal to the controlled to the contr

TABLE 71 Occupation on committal to Borstal and on discharge

				Firs	t job (	n lice	100			
Boy's last occuptation before Borstal	Errand/forry driver's mate, etc.	Labouring and other unskilled	No employment since school	H.M. Forces	Skilled in building trades	Other skilled trades	Apprenticeship (bound)	Others	No information	Total
Errand/lorry driver's mate, etc.	_	7	_	28	1	а	_	_	9	43
Labouring and other un-										_
skilled	-	75	_	104	8	13	1	7	41	249
No employment since school	_	- 6	_	2	_	1	_	1	_	4
H.M. Forces			_	16	_	1	_	2	1	27
Skilled in building trades	_	1	_	1	_	_	_	_		2
Other skilled trades		10	-	9	_	1	_	1	1	22
Apprenticeship (bound)	I —	8	_	6	_	_	-	-	- 4	13
Others	-	1	_	4	_	_	-	1	- 1	6
No information	4	102	2	128	12	10	1	12	88	354
Total	5	205	2	293	21	29	2	24	189	720

V.169 We may analyze the Governors' assessments in terms of the same occupational classification as that used in Table 70 (above) for examination of success and failure rates. Here, it seems that Governors were unduly influenced by what they believed were the resettlement conditions likely to obtain on release. They rated "very good" far less frequently when the law out to an unstilled occupation this control of the facts where unstilled lowers occupations showed no less a success rate than the "others" category. This analysis is given below.

TABLE 72

Governor's prognosis analysed by type of first job on licence

			Туре	of first	job on	licence				
Governor's prognosis	H. Fo		Unsi	cilled	ou	iezs	No		To	tal
Very good Good Fair	No. 114 130 48	% 89 44 15	No. 52 100 45	% 25 50 22	No. 35 37 7	% 42 45 8	No. - 3 2	% -2 1	No. 211 270 97	% 28 38 18
Don't know and uncodeable No information	5 1	_2	7	_3 _	-	_5	184	97	16 136	2 19
Total	293	100	205	100	88	100	189	100	720	100

#### PERIOD CRIME FREE

V.170 The average failure in the sample had remained unconvicted for a period of 11 months after discharge on licence. This included any time on remand or until the further crime was proven. The second quarter (3 to 6 months) after discharge saw more failures than any other quarter, and this period similarly included any period on remand.

\$\tilde{Y}\$. These data may be plotted graphically and will bely to show grounds for our belief that the period of testing allowed before the sample were classed as either successes or failures was, in general, adequate. The rate at which lads fall was, of months after discharge, continuously decreasing with time—the longer time erime free, the less the chance that crime would be returned to. \*During the first 0 months 162 of those who failed had already failed, whilst in the sext 0 months 90 failed and after 18 months' crime free only 57 months of the control of the co

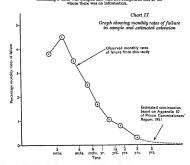
<sup>\*</sup> See also Chapter I.

TABLE 78

Period from discharge to reconviction
(failures only)

Period crime free after discharge	Number of cases	Average per month	Percentage crime free at given date
Loss than 4 weeks	4)		% 99
4-6 weeks	13	27	ſ98
5-8	14 88		196
2-8 months	27	27	92
B-4		33	87
4-6 ,,	51 84	26	80
5-9 ,,	58 90	18	72
9-12 ,,		12	68
i-11 years	47	8	59
11-2 ,,	36	6	54
Over 2 "	47	-	47
Total	362*		

<sup>\*</sup> Excluding 5 cases who escaped and were not recaptured and 27 on



V.172 This analysis is interesting in that it suggests a further criterion which might be used. We might consider the priod "criterion for "as a further criterion. It seems likely that such a criterion of the seriousness of the failure might be better in some ways than the one of the number of crimes committed. One sample analysis may be of use to illustrate this here, and we shall return to the supplementary problem of time of exposure in Chapter VI. We noted that the type of employment on discharge was not significantly associated that the type of employment con discharge was not significantly associated that the type of employment confidence for the compisions.

No information group 10.5 months H.M. Forces 10.7 ,, "Other" occupations 11.8 ,, Unskilled occupations 11.9 ,,

V.I7S Similarly, if we leave out the successful cases' and examine the Covernors' and Housemsters' reports in terms of this factor, we find that those where the Governors reported most favourably remained crime free for twice the average time of those where they reported most unfavourably. Analysis of Housemasters' reports shows a similar result. The detailed analyses are given below.

TABLE 74

Governor's report analysed by average period crime free

Governor's report ‡	Average period orime free months	Base number§
Very good	18-16	71
Good	12-56	84
Fair	11-87	109
Poor	10-43	72
Bad	9-37	15
Uncodeable	18-57	14
No information	9-298	60
Total	11-472	865

<sup>†</sup> This analysis obscures the fact that almost as many failures as successes were rated as "good" or "very good." See Appendix V.

<sup>§</sup> Total excluding those who had no further crime and those for whom there was no information.

<sup>\*</sup> This analysis obscures the fact that almost as many failures as successes were rated as "good" or "very good". See Appendix V.

TABLE 75

Housemaster's report analysed by average period crime free

Housemaster's report*	Average period erime free	Base number†
Very good	19-36	11
Good	12-08	92
Pair	11-62	126
Poor	11-21	67
Bad	10-59	1.5
Uncodeable	7-00	2
No information	9-15	52
Total	11-47	365

\* System of interpretation "A".
† Total excluding those who had no further crimes and those for whom there was no information.

V.174 The period of time which classed between discharge and the proving of the first crime is, however, subject to the differential rate of detection to which we have referred earlier. The brighter the lad, the more enterprising ins crime, the more difficult is will be to apprehend. Those who were cubject to the tightest discipline (ILM. Forces cause) remained crime free for a lesser extraction of the contraction of the contra

V.175 It is interesting to compare the number of crimes committed during the period of follow-up (the other criteria we have used as indicative of the degree of failure) with the period crime free, when broken by the same factors. An example of this is the analysis according to the type of job on livence.

Type of job on licence	Period crime free	Average number of crimes
No information group	10-5	4-64
H.M. Forces	10-7	2.67
"Other" occupations	11-3	2-81
Unskilled occupations	11-9	2-89

V.176 It will be seen that the Forces group is out of rank. In general, the longer period crime free the fewer the number of crimes, but the Services personnel, although apprehended on average earlier, had fewer crimes during one the period of licence and follow-yp. This is in accord with an hypothesis that the period of licence and follow-yp. This is in accord with an hypothesis that the period crime free is associated with ease or difficulty of detection and apprehension and that Service personnel are easier to apprehension.

V.177 It is, of course, not possible to analyse number of crimes by the period crime free with any real meaning, since those who are apprehended early in their term of licence will be removed from the temptation to more crime, at

9 d image diatilised by the University of Southampton Library Digitisation Unit least for a period. If they were not so apprehended they would doubtless accumulate more crimes to their credit in this period.

V.178 Another indication of the seriousness of the failure might be thought to be found in the type of treatment given for the offence. The disposal of the failures at their first conviction after their Borstal discharge is shown in Table 76 below. This is the sentence they received which involved their being classed as "failures".

TABLE 76

Sentence on first crime after discharge, analysed by average number of crimes after licence to 31st Ausust. 1951

Sentence on first crime after discharge	Average number of crimes after licence	which	er on* average based
Fined, bound over, P.O.A., and conditional dis-		No.	%
charge	2-3	63	18
Borstal licence revoked	2-7	58	16
New Borstal sentence	2-2	17	5
Prison up to 1 year	2-5	94	26
Prison up to 3 years	2-5	41	11
Prison over 3 years	2.7	8	1
Any other detention	2-6	15	4
In mental institution	1-5	2	1
No information of sentence	1.7	10	. 8
No information of case	4-6	58	18
Total	2-9	856	100

Excluding those who were successful and those for whom there was no information on the number of crimes after licence.

V.179 It will be noted that about a fifth of these first offences after Borsta my be regarded as receiving minor pumishments. We did not feel that this afforded good grounds for classifying the cases as "minor failures". It will be seen from a study of Chapter VI that such a course was quite unnecessary. The dichotomy into success and failure and the scoring system which maximed the identification of these two classes at the same time and main identical form also identified the scriousness of the failure and the degree of success in so far as our two supplementary criteria afforded a measure of

V.180 The seriousness of failure was, we considered, best described by the number of further crines committed. Whillst it is true that some youths may have had little opportunity of committing many crimes since they received into periods of detention this measure avoids some of the problems of the alternative criteria of the period crine free. The number of crines included "shach mito account" and thus any bias exused by differential detection rates are supported to the criteria of the period criteria of the problems of the criteria of the problems of the criteria of the problems of the value of the problems of the value of the problems of the problems of the value of the v

on this criterion those who avoided capture for a while would he classed as worse failures than those whose capture prevented their record growing. Since the weights obtained for the factors in the score do not differ for either criterion, we may assume that hiss due to the failure to identify all failures (either hecause of lack of time in follow-up or hecause of difference in detection) is extremely small. This must, indeed, he so if the score gives every lad an ordinal position on a scale of criminal tendency. The cutting point of success-failure does not then have a serious effect if it is moved up or down the scale by even quite large proportions. If the serious failures fail earlier and fail more often, then a follow-up period of five or ten years would give much the same result as a follow-up (testing) time of one to two years. The evidence which suggests that this is so is available from within this study and is supported by the other works to which we have referred. We mentioned studies with long and with short testing periods, and we noted that the factors found to he of importance were the same as or similar to our own. The evidence from within this study is somewhat complex and we will defer the examination of the effect of the period of exposure upon the prediction until we have presented the hasic prediction tables.

V.181 Only a third of the failures had added only one crime to their record after discharge, and the average was 2.9.

TABLE 77

Number of crimes after licence to 31st August, 1951,

analysed by criterion

Number of crimes	Suc	Success		Failure		Total	
No information 0 1 2 3 3 4 5 5 6 6 7 8 9 Resuped and not recaptured.	No. 326	% 100	No. 16 — 129 91 89 25 20 10 9 9 23 6 17	% 4 	No. 16 826 129 91 89 25 20 10 9 9 28 6 17	% 2 45 18 13 6 4 3 1 1 1 1 8	
Total	326	100	394	100	720	100	

# Average number of crimes=2901. V.182 Thus, if we consider either the type of disposal of the youths at their

first appearance in Court after discharge, or their number of offences, we mine appearance in Court after discharge, or their number of offences, we offelow-up were (if we may he permitted a loose phrase) fairly serious failures. It may he that those who fail after the end of our follow-up period will be less serious failures. There is indication of a tread in this direction from the

analysis of the disposals at the first conviction after Borstal training and the period crime free. From Table 78 (below) it will be noted that the less serious penalties amounted to only 7% amongst those failing within 4 months of discharge, but to 81%, of these failing after 12 months of testing time.

TABLE 78

Sentence on first crime after discharge, analysed

	oy p	ersoa e	rime ji	ree				
		,	Period o	rime fr	66			W-4-14
Sentence on first crime after discharge		to onths	4- mor		Over 1 year		Total*	
Fined or conditional discharge Periods of detention	No. 5 67	% 7 93	No. 23 89	% 20 80	No. 35 78	% 81 69	No. 63 232	% 21 79
Total	72	100	112	100	111	100	295	100

<sup>\*</sup> Excluding all who were successful, those for whom there was no information on either variable and those in a mental institution.

TABLE 79

Period between leaving place of detention and first crime, analysed by average number of crimes after licence to 31st August, 1951

Period between leaving place of detention and first crime	Average number of crimes after licence	Number on* which average was based		
Less than 1 mouth 4-6 weeks 6-8 " 2-3 mouths 3-4 " 4-6 " 6-9 " 1-12 " 1-12 " 0 Ver 2 "	4-0 3-5 4-9 3-6 3-6 3-9 2-9 2-2 2-3 2-1 2-1	No. 4 18 14 25 31 50 51 37 47	% 1 4 4 7 9 14 14 11 13 10 13	
Total	2-9	354	100	

\* Excluding successes, and those who were sent to prison or those who escaped from Borstal and those who were not recaptured. V.188 This table makes it appear that the longer the follow-up period the greatest the proportion of those classed as failure on "technical" grounds. This is confirmed by Tibbetts' finding to which we referred in our chapter on the history of prediction (148). This eitherion of degree of failure has arithmetical advantages over the criterion of period crime free, since in the latter there are the limitations of the end of the crime free and the crime free and there are the limitations of the crime free and the crime free and the crime free and the crime free and the crime free, but, as we have already remarked, this is not a particularly meaningful analysis, since those who have committed crimes were, for a time, removed analysis, since those who have committed crimes were, for a time, removed analysis, since those who have committed crimes were, for a time, removed siderable statistical importance since it disposes of some fallacies which might be put forward.

V.184 It is valuable from the statistical methods point of view to note that the removal from opportunity does not remove the correlation between the period of crime free and the number of crimes committed.

V.185 In future studies it is hoped that we may be able to continue to follow the careers of Borstal boys beyond their immediate discharge and to say something more about problems of resettlement. On this occasion our evidence from direct analysis ends here.

## SUMMARY OF CHAPTER V

S.V.1 There were many stages in the process of derivation of the experience tables required by our terms of reference. Because this was the first "pecticion study" of this kind to be made in this country we considered that it would be desirable not only to report our results and methods but also to put on rocord a number of the basic analyses. These basic data are of no value in themselves but may be of considerable ultility isolar during the research be carried out in this field. In order to make the presentation interesting and to we have from time to time explored some developments of the basic data (beyond our terms of reference) where the results of this research might be both direct or innovatant.

S.V.2 Nor most of the basic analyses the sample was split into two goingthe successes and the failures. The total of the two goings, of course, gives a picture of the Borstal intake. By the nature of the inquiry the total picture of Borstal populations wan not particularly valuable since there were lew factors where companions might be made with non-Borstal or unconviced samples. It was, for example, of no value to learn that 128 out of 642 what proportion of the general population of youths had also spent some time in non-penal natitutions. Similarly it was meaningless to comment that 127 cases out of a known 687 came from "broken homes" unless we knew the proportion of "broken homes" that represented the "norm". So far as could be assessed, the proportion of broken home backgrounds amongst are of doubtful value where the data derive from different sources and where 184 S.V.8 The average age at first finding of guilt was 14 years. First offences

were nearly all offences against property and no useful differentiation was obtained by classifications by types of offences. S.V.4 The associations between various characteristics and experiences of the youths and their likelihood of failure or success were considered in this chapter in a time order. In summarising these data there seems to be no good reason why this order should be preserved when it might be more informative to rank the several factors according to their degree of association with the criterion. The following tabular layout shows the basic data so arranged for a sample of the 60 items covered

Prognostic of success	Prognostic of failure	76
Fewer previous convictions	More previous convictions	0.31
Fewer previous treatments	Previous treatments include	
(a) No Approved School	(a) Approved School	0.81
(b) No probation (see below)	(b) Probation (see below)	
(e) Not fined	(c) Fine(s)	0.24
Stable job record assessed by	Frequent job changes	
(a) Lowest time in one job	(a)	0.25
(b) Average time in one job	(b)	0.22
Living at bome	No home	0.21
Discharged from Borstal after short training	Retained in Borstal for a long peri-	od.
Did not abscoud during Borstal training	Absconded during Borstal training	0-19
Convicted later in life	Early age of first conviction	
Housemaster's prognosis—good	Housemaster's prognosis—bad	0-19
Governor's prognosis—good	Governor's prognosis—bad	0.18
Went home on discharge	Did not go bome on discharge	0.15
Home conditions prior to Borstal as-	Home conditions prior to Borstal a	0.17
sessed as "good"	assessed as "fair" or "had"	0-16

The order of degree of association has been broken where two or more items are directly associated.

S.V.5 Of equal interest were the factors where no significant association was found between the criterion and the factors examined. A shortened list is given below.

Whether previously on probation or not\*

Age of committal to Borstal Intelligence test scores

Family crime record

Number of siblings Population of town

Estimate of "class" of town

Type of crime Broken or unbroken home

Overcrowding of home Religion professed

Duration of stay at address Truancy or no truancy from school

School reports Physical condition

Occupation before or after Borstal training Time in Borstal training\*

<sup>\*</sup> After adjustment (see text below).

S.V.6 It will be noted that we have included two items in both lists showing them as significant and as not having a significant association with the criterion. These two items illustrate the dangers of direct and simple interpretation of the association between two things. Although the time a lad spent in Borstal was, given no other information, prognostic of success or failure, when the type of Borstal was taken into account together with the chances of success irrespective of the time of detention and given that discharge or retention outside the limits of the variation observed in this sample was excluded. then we could say that the time of detention was of no significance. Similarly probation was prognostic of failure if we used that information alone, but when we made allowance for the fact that those who had been on probation in the past began their criminal career earlier, their probation ceased to be prognostic of failure. Obviously we cannot count into our prognosis of a youth both that he began crime early and that he had previously been put on probation. By "scoring" him for having been on probation we are taking into account the earlier age of commencing crime in so far as this affected our criterion. Since, however, the simple fact of whether or not the youth had been on probation contained as much prognostic information as the age of commencement of crime and was more reliably recorded, we used the former in our future development of the statistical system of prognosis. Probation like Approved School experience is the result of a complex of factors and for our purposes it was simpler to use the resultant factor than a complex of others. The correlation between failure and probation and Approved School treatment does not mean that these treatments are valueless. The boys who ended at Borstal were probation and Approved School failures. We do not know from this study what happened to the successes. All we know is that probation failures and Approved School failures were also likely to be Borstal failures.

S.V.7 The supplementary analyses we have made in this chapter are mainly illustrations of the error of using simple direct correlations (zero orders) where other data are also available. In the process of illustrating this fact we showed that

- (a) "Open" Borstals had a better success rate than "closed", even after all possible allowances had been made for the fact that the youths
- sent to "open" Borstals were "better risks". (b) The system of allocation to type of Borstals carried out by the Reception Centres at Latchmere House and Wormwood Scrubs was
- (c) There was every reason to believe that long periods of detention (above average) may yield no better results than periods of, say, one vear.
- (d) Governors and Housemasters in reporting on their cases on discharge
- were too greatly influenced by misdemeanours in Borstal. (e) Either early crime record or family crime records were prognostic of failure after Borstal training, but (because of overlap) not both. We were led to discuss the problems of differential detention rates for
- offenders of different classes of background and of different intelligence levels. S.V.8 These findings resulted mainly from feeding back into the experimental system the results of the system of prognosis which it was our reference to

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remarkably effective.

find. They were merely illustrative of method and not final and absolutely conclusive results, mainly because data were not always available, and we could be certain that those cases where data were missing were different from those cases where data were available.

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# CHAPTER VI

# Prediction Tables

VI.1 The various methods used by previous workers in their attempts to predict success and failure of convicted persons have been briefly described earlier in this report. Several books have been written and perhaps hundreds of articles criticising the different methods employed. There is no need to repeat here those items from these criticisms which we regard as valid nor to state what we believe to be the major weaknesses of previous studies. Any attempt to build a prediction equation from data which were not obtained in the first place with this objective clearly in mind, cannot be perfect and we realise that there are imperfections in our own work.

VI.2 We will first try to state what we regard as the important requirements of any scoring system and to show how well, or how badly, we have been able to meet these. We shall then go on to describe in more detail our own methods and to report on their degree of success and their limitations.

#### PART I

#### REQUIREMENTS OF PREDICTION EQUATIONS

VI.3 Prediction tables seem to us to have four basic requirements, simplicity, efficiency, repeatability or reliability, and validity. We shall examine the implications of each.

#### SIMPLICITY IN OPERATION

VI.4 The final prediction tables must be easy of application to any case, no matter how unique the situation envisaged. No technical skills other than ability to do simple multiplication, addition and subtraction should be required. This does not mean that the techniques used in obtaining the simple end result should also be simple. If the techniques of deriving a prediction table were to be such that all could understand each step, a severe restriction on efficiency would be imposed. But, if a complex system is used in deriving the simple end result, the methods must be capable of explanation in principle, so that every reader can follow the limitations of the essential mathematical concepts. Confidence in the results of the prediction tables should derive both from the argument and from demonstrations by example. The user must have confidence in the tool he is using and this confidence should not be built only on a blind faith in the integrity and competence of the compiler of the system. We shall attempt to fulfil our own precepts by giving the basic data in two forms, one by argument and the other by showing the mathematical model in some detail. We thus hope to convince those unfamiliar with the algebra and the geometric models of the reasonableness of the result. We shall reduce the end result to "rule of thumb" procedures. VI.5 Simplicity of procedure in this respect we have interpreted to mean the following restrictions. The tables must be applicable in a general form to any case. Instructions as to procedure and any tabular matter necessary must be 138 reduced to one schedule, to occupy, say, only one sheet of quarto paper. No

reference to external tables (other than this one sheet) nor memory of numerical facts must be required.\* VI.6 Some data must, therefore, be "thrown away" because its use, even at

the final stages of application would involve references which would be regarded by some users as complex. The chance of error in calculation must be reduced to a minimum and time taken to make the calculations should be

very short. VI. 7 We must also have regard to the quality and quantity of data likely to be available in the worst cases. Our dependence on the data must be con-

ditioned by and be in terms of its reliability.

#### EFFICIENCY

formation.

VI.8 Our second requirement is efficiency. The term efficiency as we use it here has a special technical meaning. In simple and not quite accurate terms, this means that the maximum use must be made of the information we have. This requirement, if taken fully into account, opposes our requirement of simplicity by reason of the type of data we are using t We must therefore find a compromise and require the maximum use to be made of data which does not involve the introduction of complex final tables. The main loss of efficiency in previous criminological prediction has been due to the failure to identify and exclude those parts of factors which "overlapped" each other and thus contributed nothing to the prediction. All overlapping is inefficient, but inefficiency may be found in other methods than in those which involve overlap. We shall, for example, reach an apparently better but less efficient result if we extract too much information from too many factors. This is due to the fact that for each additional factor "degrees of freedom" are being used up. If we had, say twelve cases, and five or six factors each considered at two levels (yes or no, above or below average, etc.) we could in general specify or "predict" every case of these twelve accurately. but such prediction although appearing to be perfect would be wholly meaningless. This is due to the fact that we regard (for purposes of prediction) the sample of Borstal boys in 1946-7 to be a sample in time as well as a sample of one in three in the year selected. Associated with each factor there is a chance variation, or more correctly, a sampling error or variance. If our number of factors and the levels at which we consider them becomes large in comparison with the number of cases we should be using too much of this chance or error variation in determining our prediction, and the equation although specifying the group on which it was based could not be expected to predict any other cases unless (which we know to be most improbable) the

factors were invariant. VI.9 This aspect of prediction has been discussed by Reiss(1) and in our Chapter III. It is his point of "stability".

VI.10 An efficient prediction table is thus one which achieves its purpose with the smallest number of factors which contribute significantly (i.e. above chance

<sup>\*</sup> This latter restriction is important in one technical point: it means that data may not be "transformed" [logarithm or sine transformations for example are ruled out), since such requirements would need reference to other tables and extra skills in using them. This is an unfortunate restriction when we consider the skewness, for example, of the distribution of the number of crimes committed by young offenders.

† With "skewed" distributions we shall not reach maximum efficiency without trans-

variations) to the specification. In this case efficiency and operational simplicity work in the same direction.

YIII We have remarked elsewhere that in "500 Criminal Careers" the Chuecks obtained a prediction value indinated by their coefficients of contingency of 0-42 using one factor alone, whilst when they used six factors (including this one) the value of the prediction rose only to 0-45— addirence 0-60 which was an insignificant gain. This was due to the use of inefficient at inflicted above where the term 'infinitent' is used in its technical seases as inflicted above.

as indicated above.

VI.13: This does not mean that the Glued't pytion vill not work—it obesVI.13: This does not mean that the devices which must principle to the 
second of the devices which must principle and 
and their data) work better. Relia 10 has contributed a metal practical 
and their data) work better. Relia 10 has contributed a metal practical 
demonstration of the effect of using few and several relators by comparing 
the results obtained for many types of prediction equation. Relia's contribution makes clear by practical evidence the correctors of the theory we have

discussed. It share that most of the loss of information which the result in "900 Criminal General" indicates it can to overlapping of income and to the consequent double-counting of some elements. The Gluecks later recognised this, but their remedy was to reject, factors which overlapped rather than to identify the unique parts of each factor and to utilise this information to fall dielicity. The individual contributions of each factor in this study were far dielicity. The individual contributions of each factor in this study were far our highest coefficient of contributions of each factor in this study were far four highest coefficient of contributions of each factor in this study were far four highest coefficient of the contributions of each factor in this study were far a small number of such factors we derive an overall prediction precision equal to that of "900 Criminal Careers". This literate the loss due to overlapping and inefficient statistical methods we might compare the individual contribution "900 Criminal Carceers" and in this study.

Pre-reformatory and pre-Borstal factors
Factors arranged in order of individual prediction value

	1	2	8	4	5	6	Total
500 Criminal careers Current study	0-42 0-23	0.88 0.21	0-29 0-21	0-29 0-19	0-27 0-17	0-26 0-16	0-45 0-45

VI.14 It will be seen that there was considerably less information in each component tiem in the present study, but that the system of building the equations leads to the addition of the effective parts of each relatively small contribution with the end result no worse than that achieved by other statistical systems where one component contained about four times the information.†

tion. This is the saked why the amount of information in each component was lower in the current study than in the earlier similar work in the U.S.A. This question, although somewhat irrelevant to the argument, ought perbaps

 Reiss's finding although derived laboriously by empirical methods could have been very shortly and precisely obtained by algebra;
 Squares of these coefficients are rough indications of the amount of information. to be answered here. There are two main reasons. The most important is doubtless the fact that Borstal boys are very much more alike than the paroless of the earlier study. Borstal entrants are a highly selected group with respect to age, type of criminal career, past punishment record, physical standard and intellectual level. We were attempting to discriminate between last who were very much alike—parinags far more abilite than those in the last who were very much alike—parinags far more abilite than those in the Line when the carlier study are all the control of the carlier study upon a superior and other data were available whilst in the present study only administrative records were utilised.

REPEATABILITY OR "RELIABILITY" VI.16 The third requirement is that of repeatability. In some respects this requirement follows from our requirement of simplicity, in that the degree of simplicity specified as necessary in prediction barred any but elementary skills. No variation in the prediction derived should arise when computed by different persons of average intelligence nor should any different result occur when the computation is carried out by quite inexperienced personnel. Any special skills which derive from experience of dealing with offenders should be exercised independently of the prediction equations, and not be needed in deriving the basic data for use in the prediction. We have discussed the problem of subjective judgment and shown that even two highly experienced persons such as Governors and Housemasters of Borstal Institutions do not agree in their assessments of the chances of success of their cases, Such classes of judgment are not therefore repeatable. Where differences occur between subjective judgments it is safe only to use that portion of the judgment about which agreement can be secured and to regard the remainder as individual variation-or in statistical terms "error". The techniques we have used give only such weights to subjective judgments as can be estimated to be common ground for agreement.

#### VALIDITY

VI.17 Fourthly we require the tables to be useful and valid. Exact prediction of the future behaviour of any individual is impossible, but the system of prediction derived from experience tables has got to prove that it can carry out the task of differentiating the likely successes from the likely failures with reasonable validity. What level of validity should be regarded as reasonable constitutes a major problem. In vocational guidance and educational selection the future of an individual is at stake as much as in criminological prediction. In these former fields statistical prediction tables (under a different name but using precisely similar techniques as employed here) have been accepted for many years. This is perhaps due mainly to the fact that when groups of individuals to whom the test procedures have been applied were compared with those selected by any other procedure, there was on balance an advantage in the statistical methods. This gain over the subjective procedures was often slight, but it was considered sufficient to show that standardised tests (prediction tables) did on average a better job than the procedures normally used before their introduction. In vocational selection quite often the newer test procedures are linked with the older system of selection board and individual interview.

VI.18 People seem, however, to be more inclined to accept the judgment of other people than to trust numerical procedures which appear abstract and impersonal. It seems that if this prejudice is to be overcome we require the experience table procedures to be more accurate than other systems of making assessments. It would apparently be insufficient to show that the two systems were equally good. The statistical procedures might be cheaper to operate, but they would not be so acceptable. The degree of precision or validity of criminological prediction is thus best judged by relative standards and not in absolute terms.

VI.19 In this study it seems that the statistical procedures were at least three times as efficient as the subjective judgments of Governors of the

Institutions, and more accurate than a psychologist's prognosis. VI.20 So far we have used the term "prediction" rather loosely, and now that the general concept is established we might perhaps be more precise and show how the criminological use of this term differs from others. It is noteworthy that Ohlin to whose work in this field we have referred earlier, prefers the term "experience tables" to "prediction tables". In any case it will be clear that "prediction tables" are in fact experience tables-there is no difference in their content but only in their use. Their use for prediction tacitly assumes that the experience of the past is a guide to the future. This, indeed is the basis also for subjective human judgment and we are more inclined to accept a judgment that is supported by extensive and intensive experience than one based on limited experience. The philosophy underlying the use of "experience" as "prediction" is thus commonly accepted. There is, however, one important difference which only very recent statistical theory (8) is beginning to take into account. The experience of living persons changes with time and the Borstal and other criminal populations also change with time. Thus subjective judgments are based on dynamic experience, (4) whilst the statistical model we have used in this study gives a static experience table. It becomes clear, therefore, that the experience tables, if they are to be valid as prediction tables will need revision. Good results will only be achieved whilst the experience on which they are based remains representative of the population to which they are applied. There are now available risorous and highly efficient statistical methods for dealing with such dynamic situations, and a note will be given later showing how these might be applied in criminological prediction problems. In the meantime, let us attempt to assess how serious the effect of using a static model without revision is likely to be, if no major changes of policy cause a discrete break in the natural pattern of changes with time.

VI.21 Since 1988 the proportion of "successes" after Borstal training has not been subject to wide variation. This does not suggest anything about the future likely proportion of successes. Nevertheless, let us suppose that in a future year the "failures" were to drop to 85%, this might be due to two things, (a) the proportion with undesirable characteristics had decreased (i.e. the equation would make allowance for the change), or (b) the success rate had risen for all or some groups of "risk". For example, at the time of this study we know that "Group A" had a 7:1 chance of success; in the future hypothesised case we might experience the higher overall success rate, (a) because the proportion of people with experience fitting them for "Group A" was larger and those whose experience resulted in their being classed as D was smaller, or (b) because the success rate for experience group A had itself increased. If the latter case were true the prediction based on experience tables (and most likely also that based subjectively on experience)

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would deteriorate, whilst in the former case no significant deterioration in the prediction from experience tables would result. Of course, such changes need not be independent, and both might occur together. Compensatory changes might also take place within the groups, so that a deterioration of prediction could take place without significant change in the overall success/failure rate. VI.22 In view of the fact that the experiences we found to be prognostic of success have, in general, been found by others over many years in many different countries, there seems to be good ground for expecting prediction based on these factors to hold for a period long enough to be administratively useful. It does not appear that much is lost because this study is based on static experience so long as the need for revision is always considered. VI.23 Strictly, then, our prediction tables do not predict-they tell us only what other factors belp us to "specify" success or failure in this sample and what weight we should attach to each factor in order to maximise the efficiency of the specification. We cannot therefore state exactly the validity of the present system, but only the degree of its precision in specification.\* We know, however, from other work that good specification provides good prediction, and the best prediction is obtained from the best specification.

# PART II THE PREDICTION TABLES

#### THE PROCEDURE ADOPTED

VI.24 The basic data from which we set out to build the experience tables included the material reported in Chapter V. Other similar tables were studied but have not been reported since they served only as an interim step towards the prediction and were of no special interest in homeslave. Every factor for which information was available in about 89% of the cases was analyzed by the criterion of success or failum. Two other criteria we are better to be used to be used

VI.25 We have previously referred only very briefly in passing to criteria B or C and the purpose served by their inclusion will not be obvious until we have followed through the simple prediction of the first (A) circient. It is, bowever, convenient to define these two criteria now so that the later argument will be seen in its setting.

### DEGREE OF FAILURE

VI.96 This criterion was defined as the number of crimes the youth had committed after the first release from Borstal. If his licence was revoked for an indictable offence, this fact would count as one crime, if after release from the recall centre be was again convicted for an indictable offence, this would count as two crimes. Similarly for all such further crimes. No crimes after conviction were treated as a score of zero on this scale.

<sup>•</sup> This remains true after a "validation study". A "validation study" merely provides an estimate of the validity at other points in time. The validation study helps to suggest the level of confidence we may place in the prediction, but it is not a "proof" of the predictive value of the tables when applied to periods of time other than those used in the original study and the validation study.

#### DEGREE OF SUCCESS

VI.27 This criterion was required to reflect the attempt which the lad had made to settle down in life. No direct objective measure of this was, of course, available, nor was there any reliable and readily available subjective assessment although one could doubtless have been obtained. For our limited purposes it was considered to be sufficient to take the period between release and first reconviction as some indication of the attempt at resettlement.

VI.28 Our first step was to analyse every factor by the first criterion. We thus have a large number of tables showing the relationship between various factors and our criterion. We subsequently selected the more important factors and correlated these with information on post release behaviour which we treat as the criteria to be specified or "predicted". The ten factors which had the best degree of association with the basic criterion (A) are given in rank order below together with the coefficient of association and re corrected to give figures comparable with the correlation coefficient of Pearson (product moment). Those marked with a \* are available before committal to a Borstal Institution.

TABLE 80 Summary of main factors correlations?

Pactors	T	14
* Total number of convictions	0-28	0.8
Job changes during licence	0.21	0.2
* Whether ever at Home Office School	0-21	0-3
* Longest period in any one job	0-19	0.2
* Average duration of jobs	0-17	0.2
Number of misdemeanours in Borstal	0-16	0.2
* Number of convictions resulting in fines	0-16	0-2
* Whether evidence of drunkenness	0.16	0.2
* Who the boy was living with	0.16	0-2
* Age at first finding of guilt	0.15	0-1
		1

## \* For definition see Appendix II.

These are associations which statisticians refer to as being of "zero order". They are simple direct comparisons between the two facts-one the criterion and the other the "factor" which we might use as an aid to predicting the former.

1

VI.29 So far our procedure has been very similar to that of Glucck, Burgess, Ohlin and others whose work we have briefly noted earlier. It is in the way in which we seek to combine these basic zero order data into an efficient prediction equation that we take a new line-new that is in criminological prediction. The Gluecks in "500 Criminal Careers" took the six factors which had the highest zero order correlation and added together the probabilities as indicated by the percentages in the several categories. We have said that this method does not take account of any overlap of the factors and that this is essentially inefficient. In later studies the Gluccks rejected whole factors which they considered overlapped, and this too was an inefficient statistical procedure because not all of the factor might overlap-or in statistical terms some of the variance might have been independent in the two factors and this could have contributed to an explanation of the criterion.

VI.80 Since we had in all, 60 zero order correlations we should have needed to calculate a total of over 1,100 correlation coefficients if we were to examine the overlap of each of these with each other. Whils this sake in itself would have been formitted the loughet which was available for the complete project, these calculations would have been only the first stage and the later calculations would allow been almost impossible. We, therefore, had to make an initial selection been almost impossible with week project, the calculations would have been almost impossible. We, therefore, had to make an initial selection been almost individually only these which were judged likely to be of value in the particulation equals of overlap were small. If the overlap were large, then these factors would be rejected by the statistical procedures at a latest states.

VL91 We had, therefore, to assess the a priori probability that a factor might emerge of value. We concluded that the zero order correlations were a means of facilitating our judgment regarding this probability. Accordingly we did not include in our study of overlapping any factor where the zero order to order the probability of the probability of the probability of the ton of factors where the secur by chance. Rejecting any further consideration of factors where the secur by chance. Rejecting any further consideration of factors where the security of the probability of the control of the to chance we were left with a manageable probability of the information was not regarded as hasically very reliable or where data were often missing were also rejected.

VI.32 Our next stage was to identify those cases from our original 750 cases where all the selected factors were known in respect of every case. We old not regard it as valid to use data as and when it was available in this procedure. This requirement reduced the sample to 885 case. This represents an unfortunate loss, but no worse than that experienced by other researching in this field before us. We know that this residual ample was biased in that it contained 251 successes and 164 failures—a success rate of 57.6 as against lasted positively with classe. Great exability of information was inself correlated positively with classes. Great exability of information was inself course to the contraction of the contract of the contract seems better than they are, but night work in the other contractions of the contract of t

VI.33 A process of "weeding" out those factors which did not contribute to the specification of our criteria hecause they overlapped with other factors then hegan...(3) First a "matrix" (a table showing the overlap of each factor with each other and each with the criteria) was built up, and the equation solved using all factors of significance which were included. The equation vields some terms which if they were omitted would not materially (significantly) reduce the degree of precision with which we could specify our criteria. For example, in the first matrix we included hoth "average duration of jobs" and "longest period in any one joh". Clearly these two factors overlap, There is some preference on administrative ground for the latter-it is simpler and may perhaps be more accurately determined. If then we can derive specification precision using only the latter (longest period) which is equal to that (or differs only insignificantly from that) using only the former (average duration), preference will be given to the retention of the latter. If, however, there is some unique element which contributes to our precision of prediction we would ohtsin the weights for the two items which gave the best estimate, As might he expected, although the overlap was not complete, (r=0-70) the

<sup>\*</sup> The 21% level of chance was taken for this purpose.

Ann

precision of two factors (as compared with the one) did not qualify both for retention. The two together added nothing to our knowledge of the likely success or failure of the individual, which was not already known from one. These Event points of the contracted in a similar way. To give another the contract of the c

mum weightings.

"IASS This product of studying all items which were likely to have some VIASS This promote to the precision of predictions and then of rejecting them which were sufficiently taken into second by other productions which were sufficiently taken into some by which were sufficiently taken into some by which we separately for factors known before conviction and fee factors known during Borstal training. Preference was always given to the simpler of two items which competed for inclusion on other grounds.

DISCRIMINATION—THE PREDICTION EQUATIONS
VI.38 The equation which derived from this process of simplification, and the method of calculating the "score" for other cases is shown below:

FACTOR

For every factor which applies, count the number shown against the item. Add together. Result is basic score. To convert score into probability of success refer to GRAPH given as Chart III on page 147.

If evidence of drunkenness	24
If any prior offence(s) resulted in fine	9
If any prior offence(s) resulted in committal to prison or	
to Approved School	8
If any prior offence(s) resulted in a term on probation	4
If not living with parent or parents	7-5
If home is in industrial area*	8
If longest period in any one job was:	
Less than 1 month	11.7
Over 4 weeks up to 6 weeks	10-4
,, 6 ,, ,, 8 ,,	9-1
" 2 months " 8 months	7-8
,, 8 ,, ,, 4 ,,	6-5
,, 4 ,, ,, 6 ,,	5-2
,, 6 ,, ,, 9 ,,	8-9
,, 9 ,, ,, 12 ,,	2.6
,, 1 year ,, 18 ,,	1.8
18 months	0

<sup>\*</sup> Any town where the ratio of the rateable value of industrial to total hereditaments exceeded 0-009.

<sup>10</sup> 

146 PREDICTION ME

VI.87 Perhaps it should again be emphasised that these factors are not suggestive of causes in any way. Nor, of course, can they be applied to any other form of treatment than Borstal training. The fact that a lad had, say,

been fined

been on probation been to an Approved School

in the past, means that he has been convicted at least four times and that at least three other testements than Borstal had been tried and failed. We might achieve the same degree of specification of success and failure if we had not taken the treatments but the factors which these restraints reflect. It of crimes which resulted in fining, or probation and the type of record which led to Approved School. It was more convenient to use the observed suits of the crimes in the past. Again, the fact that probation had less weight than, proposed to the contract of the crimes in the past. Again, the fact that probation had less weight than, proposed to the contract of the crimes in the past. The past of the crime is the past record, the sage of the young person, perhaps the home background and the like) to result in probation being warned care counted in the one obserground and the like) to result in probation being warned care counted in the one obserground and child and objective fact. Perhaps for this reason "home conditions" are for in the twee of treatment and the weights that different treatments receive

in the equations.

VI.38 The application of this equation to the 385 lads resulted in the following distribution of scores and specification efficiency.

TABLE 81

The failure score analysed by success and failure

	Score	Successes	Fallures	Total	% successful
Ā	0-9-9	47	7	54	67
	10-0-14-9	46	24	72	67
	15-0-23-9	96	65	161	60
	24-0-39-9	26	54	82	34
D	40-0 and over	2	14	16	13
		221	164	385	57

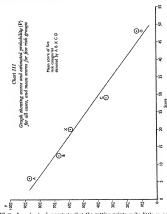
ná m0-46

VI.39 Unfortunately, we cannot compare this with the similar table in "500 Ciminal Careers" because of two facts (a) "500 Ciminal Careers" can expect the contingency of 0-46 based on three categories of circino whilst we have only two, and, (b) we cannot derive the numbers upon which the corresponding table is based since only percentages to differing bases are quoted.

VI.40 Since we do not know the distribution of the "scores" for the whole sample, the cutting points for the risk categories and the numbers falling into each are somewhat arbitrary.\* We know, however, that we had more of the

<sup>\*</sup> The procedure was to isolate the centre group first—cases where the specification was east than 2:1 or 1:2.

bette" "itiks" in the sub-sample for whom information was available, and we therefore fixed the risk estepories and allowed the numbers to vary in the above presentation of the results. The stitute of the likelihood of failure of any individual is, of course, specifiable in terms of his actual score, since the risk of failure is a continuum. To illustrate this we give as Chart III the estimate of risk for each score under the continuum.



VI.41 In order to demonstrate that the cutting points make little or no difference to the value of the specification, we shall give some examples later.

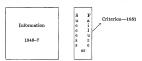
THE MPECT OF THE PERIOD OF EXPOSURE TO RISK OF FURTHER CRIME
VI.42 We have already presented some arguments to the effect that the
period of exposure to risk was not likely to have a serious effect upon the

discriminating power of the prediction tables. We anticipate, bowever, that some authorities may suggest that our period of follow-up (exposure to risk) was very short.\* It will be remembered that by the time we closed the records, 45% bad been further convicted, and our defence for the relatively short period of our follow-up compared with other studies of like nature in the past, was that the proportion of failures was unlikely to increase much shove this figure even for very much longer periods of exposure. There is evidence of this expectation both in the shape of the curve which (Chart II) shows the arisings of fresh failures in this study and from the official reports of the Prison Commissioners (1951). Making use of several known curves for failure against time, we may suggest that no more than a further 10% would fail in the next 7 years.† Thereafter the failures arising would be almost zero. Thus we may assume that after the period of exposure to risk which we allowed we should have 80% of the total failures correctly assigned to the failure category. The longer the period of follow-up the more nearly does the number of failures observed agree with the eventual number of failures. But the more we gain in this respect, the more we lose in that experience is becoming out of date. The building of experience tables for prediction must therefore be a compromise in this respect, by defining the prediction as a prediction of failure within a period of time. In this study the "time" was an average period, but a fixed period was used for the validation study. VI.43 The problem of time affecting the efficiency of prediction once tables

are made can be covered by a continuous check on the continuing validity of the tables, but the problem of the optimum period of follow-up may need some clarification.

VL44 In our study we built our experience and prediction tables in the fol-

VI.44 In our study we built our experience and prediction tables in the following way. We bad a matrix of information relating to 1946-7 and a criterion relating to 1951, thus:



VI.45 Our procedure was to solve the equations thus obtained giving our discriminant solution or our estimates of probabilities of success or failure in the following form

 $y = ax_1 + bx_2 + cx_3$ 

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t See also Chanter L.

<sup>•</sup> We would have preferred to base our calculations in this field on the actual period criter, i.e. from relacate to the time at which the first known criter was committed. Unfortunately, we could not economically obtain these data and we have instead the period from release to reconviction which will in general be some time after the offence. Some confounding is also present after the less serious offences constituting failure will be dealt with summarily whilst others will require a remand for trial.

VI.46 It would have heen a simple matter to have solved further sets of equations for differing periods of exposure to risk, thus, for example



VI.47 We could solve the above equations thus deriving a best estimate for predicting return to crime within 3 months. We could, similarly, substitute any period from, say, one mosth up to the maximum period of exposure. Each solution would yield a prediction equation of the same form as we have in fact derived.

```
y = ax_1 + bx_2 + cx_3 . . . . (say for 8 months of exposure)

y' = a'x_1 + b'x_2 + c'x_3 . . . (say for 6 months' exposure)

y'' = a'x_1 + b'x_2 + c'x_3 . . . (say for 9 months' exposure)
```

VI.48 If, as a result of this study, we found that the coefficients a, b, c . . . tended to stabilise at a certain point, we could assume that there would be little point in a follow-up study extending heyond this period. The solution of equations of this sort, although straightforward, would have exceeded our hudget\* and we had to find an approximation. Accordingly, using the weights (a, b, c . . .) for the final equation (based on average exposure of 84 years) we worked out how well these same weights would have predicted failure at earlier periods of time. The results are shown on Chart IV. It will be seen that the slope of the line (the precision of specification) has increased from the line showing 6 months' exposure time to one year's exposure time, but that after one year of follow-up, up to the full period available, no further change of slope was significant in this study.† It is interesting to note that between 12 months (release to reconviction) and the full follow-up period (lines (2) and (3) of the Graph) the failure rate increased from 25% to 48%, or in other words, line (2) was obtained with little over half of the failures available for line (3). If such a large change in the proportion of failures did not affect the prediction table in any way, it seems unlikely that a further

follow-up period.

<sup>\*</sup> This discussion is simplified by omitting any consideration of the solution for attributes and the solution for variables and subsequent combination which would be necessary, time

consuming and expensive.

I The fact that the slope of the line intreased considerably between 6 months' and 1 year's expoure to risk, may in some measure have been due to the effect of remanding the serious failures. In such cases the period erime free might have been considerably loss than 6 months since this period override release to reconviction. A more refined measure of the

<sup>6</sup> months since this period covered release to reconviction. A more refined measure of the period of exposure to risk might result in an even quicker convergence of the change of slopes.

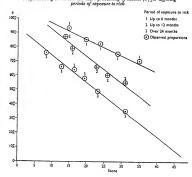
† These figures are based on the 385 cases entering into the construction of the prediction tables. In the whole sample 38% had failed within 1 year, and 55% by the end of the

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centual extra 10% could change its significance even to the smallest degree. VL48 By used fits technique it will be possible in future studies to determine when the period of follow-up has been adequate. This may be quite important since it might be possible to construct experience tables upon up-to-date experience, and not to have to wait for a long testing period to elapse first. The total proportion of failures after the clapse of a required period of time can be stabilished independently of the prediction tables and the "origin" of the prediction intensement elementary of the prediction into study we could have obtained our tables with a follow-up of 1 year, then, knowing (from official existing) last the failure not at 9 years would be 70 times that observed at attaints) last the failure not at 9 years would be 70 times that observed at tastistic) last the failure not at 9 years would be 70 times that observed in the stability of the stabi

Chart IV

Graph showing scores and estimated probability of success (P) for differing



VI.50 In brief, it seems (a) that by three or four years after release, about 80% of those who will ever fail will have failed, (b) that after one year only half of the eventual failures will have failed, (c) that nevertheless experience tables based on 1 year's follow-up yield results in all respects similar to those based on 80% of the data. There seems to be ample evidence that whatever other defects this study might have, the "short" period of follow-up was not one. VI.51 These findings are tentative because of the nature of the availability

of the data. The tables were built upon data where the mean failure rate was not as high as in the total sample. As a by-product of the main purpose of these analyses by time, it would seem that this difference of means (although due to availability problems and not to time differences) might not seriously affect the sorting out of the categories although perhaps the "real" line 8 would be moved down to a lower mean origin if the whole sample were included. It seems highly unlikely that the slope (i.e. the precision of the specification equation) would be less if all cases could have been included. VI.52 Further light on why this should be so is given by the analyses of the supplementary criteria and by the validation study.

#### SUPPLEMENTARY CRITERIA

VI.58 The way in which the concept of likelihood of failure and the probability of success inter-relate with the discrimination of successes from failures will be clear from the preceding examples. The limitation of the mere maximising of the number of correct classifications into the dichotomy "sheep and goats" for any period of exposure to risk lies mainly in that a wrong decision in one case may be more serious than in another, but we have already been able to introduce the idea of grading according to likelihood of failure in Charts III and IV. It will be clear from these charts that we may interpret any "score" as, say, a likelihood x% of failure within 12 months and also at the same time a likelihood v% of failure within 2 years. It would be possible to make estimates of the probability of failure within the life time of the youth, but this seems to be unnecessary. If we grade the youths according to their likelihood of failure within 12 months, the same grading sorts into order the likelihood of failure within 31 years. A score of 25 represents a 46% chance of success with 81 years' exposure, and also a 66% chance of success for only 1 year's exposure, and similarly, over most of the range of scores we may add 18-20% chance for the increase in exposure from I year to 81 years. We may thus derive a classification which is independent of the need to predict either success or failure within a specified time since it appears that after a fairly short follow-up period, we may merely add a constant to the likelihood of failure for all except the extreme cases.

V.154 For administrative purposes it is perhaps more often necessary to be able to say that A is "better" than B in a fairly general sort of way. It might be administratively undesirable to grade a youth as a good risk, because his risk of failure was small, if this small chance of failure related to the likelihood of committing a very serious crime. For example, suppose Smith and Jones to have a probability of success of 90% and 60% respectively, we may say that Smith is a better risk than Jones. Smith has a 10% chance of committing a further "crime" whilst Jones has a 40% chance, and given that the seriousness of these future crimes was likely to be equal, our grading of Smith as "better" than Jones is justified. But suppose Smith was likely by his

crime to do four times the damage that Jones was, then the two should doubt-

less be graded as equal risks. Again, Jones may have a 40% chance of committing only one further crime, but Smith, once having fallen to the 10% risk, may in future commit many more crimes.

VL55 Fortunately these confusing elements do not occur in the Borstal population, nor, it seems, in other criminal populations. They are theoretically possible, however, and our supplementary criteria were included mainly to provide evidence of what does in fact happen.

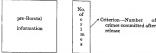
VL56. In fact we have shown their to fine the resulting of the purplement.

VL56 In fact we have shown that, so far as the severity of the punishment reflects the seriousness of the crime, the longer the period crime free, the smaller the proportion of serious crimes (i.e. the heavier punishments). We have also seen that the equations for prediction based on an average of 31 year's exposure give almost equally good results for predicting success or failure within one year. But we may be interested in forecasting the likely return to crime within shorter periods than I year and for this purpose a different set of information may be necessary to secure the best estimates. Although these kinds of problems should be solved in the way already suggested we may condense the time crime free into one criterion by attaching different weights to different periods. The weights we select will affect our solution, unless the objective is merely to attempt to predict a most likelydate for failure-an exercise which could hope for little success and would be of still less use. We explored the problem as to whether a different set of information or different weights should be attached to our pre-Borstal information by solving the following equation.



VI.57 By this means we are making some use of the fact that the longer a count stays out of trouble the less serious is any future trouble likely to be. We found by solving these equations that if we wished to predict the time to reconviction in the form above, the same prediction table as we used to predict success or failure could be applied with the same weight to each factor, with a caccess or failure could be applied with the same weights to each factor, with a classification of the country of the same weights to each factor, with a classification of the same weights to each factor, with a classification of the same weights to each factor, with a classification of the same weights to each factor, with a classification of the same weights to each same weight to each same

grading might be continued in various ways, but only one further test was applied in this study. We considered that those who had committed a number of crimes and had been convicted more than once represented a worse risk and accordingly we took the number of crimes committed after discharge as a measure of the seriousness of failure. A similar equation was solved, thus



VI.58 Again the same prediction table as predicts success and failure predicts the number of crimes committed and provides the same amount of information. A different set of information was not required nor were different weights to the factors of any advantage.

VI.59 In both these supplementary criterion analyses the zero cases (successes) constitute a considerable weight, but a model which excluded them would be unrealistic for most purposes.

VI.60 It seems that these analyses are pointing to an interesting hypothesis. The probability of returning to crime which we predict originally and the two applementary criteria may be seen as indicators of a "general factor" of "criminally." By estimating one, we automatically get also a good estimate "criminally." By estimating one, we automatically get also a good estimate in the medical state of general liberal interacting with probabilities of midviduals to accumb to the silients, string a differential probability for individuals to accumb to the silients,

Our prediction gives an indication of "general ill-health". Such a concept would permit of a seasonable cupulants of "crime was the wave "10 violation of the seasonable cupulants of "crime was the basis of stender data. The analyses we have given do not enable to a make positive such contents and the chance of a content of the content

that all reasonable criteria are in fact reflections of the same thing.

#### PREDICTING THE "UNPREDICTABLE"

VL69 It will be noted in Table 86 above that we identified four categories as A B C and D, whilst we denoted the center group about whom no update prediction could be made as X. This centre group of "unpredictables" has been a problem in most criminological prediction. The majority of the way the first equation is clearly falling upon past oriminal record. It seemed reasonable to suppose that a chance existed that this great weight of past criminal factors was saturating other factors of, say, a more personal nature. The centre group capaced here madiny because their crime record was similar

and their treatments in the past had taken similar courses. We noted, for example, that intelligence was not a significant factor in prediction of success when these weightier factors were included. Now it appeared that once we had disposed of the weighty factors of past criminal record and treatment experience, that personal factors might stand a chance of acting as differential indicators of success. This hypothesis proved strikingly correct.

indication or success. In all syptomesis provide stratingly correct, when the provise of building correlations the course has to the the quantum of the provise of building correlations. This time we knew that there was no point in including factors which had been used an resulted only in this group of lads being classified as of average failure risk. The factors which had failed to appear in the first equation has to which the zero order correlation was significant were put hack again for this group. The end result was that out of the centre group only 54 were found where the information was available, of these 37 could be correctly predicted. The fact that we required more information about this group resulted in the Table 18 to the second of the correctly predicted. The fact that we required more information about this group resulted in the graph of the second of the se

VI.64 The second equation reads as follows:

Columbian Test 60% or higher .	2
Last occupation (lahouring or unskilled)	2
Leisure activities of poor type .	4
Family crime record	11
Occupation of Head of Household	
(labouring or unskilled)	-1

If score exceeds 41 class as likely failure.

VL65 The distribution of results based on the 54 "unpredictable" cases for whom the data required were available is shown helow:

TABLE 82
The supplementary score analysed by success and failure

Score	Success	Failure	Total
Less than 4½ More than 4½	25 10	7 12	32 22
	85	19	54

χ<sup>1</sup>=5·35 for 1 degree of freedom P between 0·05-0·02

VI.60 It thus appears that 57 were correctly specified whilst 17 were incorrectly allocated. The value of ȳ is significant at the 5% level and seems to suggest that development along these lines is possible. It is, therefore, interesting to specialts on the reasonableness and possible meaning of this result. It is convenient to examine this problem by thinking in terms of Ypical cases. Let us suppose the easen have the same background of Ypical sears. Let us suppose the easen have the same background by the same that the sum that the same that the sum that the same tha

if he had either a lower LQ, or was employed at a higher level. This prognosis deteriorates further if his father was not employed in work of similar social standing to that of the lad. In order to shorten the description of some cases, let us indicate above average by a + and below average with a - sign. The worst prognosis is thus given by

give the same result, as does also
+ + + + + + (Score=2)
and - - + + - (Score=2)

This seems clearly to suggest that if the lad's intelligence and occupation are in line with each other and his employment of similar social status to that of his father, the level of these factors does not matter. It appears that it is the "conflict situation" which is emerging here.\* Thus we have factors where the level matters, and doubt-matters, and countries that the status of the statu

less factors where both the level and the "conflict situation" matter. VI.67 The working of this two-stage system is quite simple. First the facts necessary for stage I are obtained and the addition sum carried out. If the score is less than 10 the lad may be put in risk class A, if less than 15 in risk class B, if more than 24 in class C or if more than 40 in class D, with approximate chances of success of 7:1, 2:1, 1:2 and 1:7 respectively. If his score lies between 15 and 24 we regard him as indeterminate at this stage and require more information. With this extra information we add the factor weights and finally classify the lad as, say XS or XF, where the risk classes are much less positively determined due to smaller sample numbers, but are approximately 1:8 and average respectively. The fact that the worst category is still "average", is due to the fact that the availability of the data upon which to base the equation gives the sample of cases upon which the specification could be tried, a greater than average chance of success. This exercise merely reveals that the additional data does split the centre group with useful differences in probability of success.

PREDICTION FROM FACTORS KNOWN DURING TRAINING

VI.68 It is possible that a prognosis might be required when a lad had undergone a part or all of his training. Clearly such predictions may be based on those additional experience factors which become known only during training, and the prediction should therefore have more precision than one which does not utilise these data.

VI.69 We studied this problem and have derived weightings for the further factors of significance. The prediction formula reads as follows:

NE.70 If we ignore the splitting of the centre group of cases to our first score and operate the equation shown above, we find that we can specify success or failure as follows:

\*This result seems strongly to support the theory of 'normality constellations' due to G. W. Lynch (see pp. 176, 209).

TABLE 88 Estimates of success or failure based on facts known before and during Borstal training

Score total	Success	Failures	Total	% Success
Up to 9	65	10	75	87
10 to 17	68	28	96	71
18 to 27	64	68	127	50
28 to 41	22	49	71	31
42 or more	2	14	16	13
	221	164	285	57-5

VI.71 The cutting points for these groups are, of course, again arbitrary, although we have kept the probabilities of success or failure for the groups fairly similar to those of Table SI. By this means the slight gain in prediction is seen by the increased numbers of cases which appear in the best risk group. In order to demonstrate that the cutting points make little or no difference to the precision of prediction, but may be adjusted to give numbers suitable for decision purposes, we have held the numbers constant (or as nearly so as possible to fit unit scores) and allowed the probabilities to vary with the results shown in Table 90.

TABLE 84 Estimates of success or failure based on facts known before and during Borstal training (alternative presentation)

Score total	Success	Failure	Total	% Succes
Up to 8	61	10	71	86
915	58	23	76	70
16-22	52	81	83	63
23-28	35	44	79	- 64
29 or more	20	56	76	26
	221	164	385	57-5

VI.72 It is known, however, that the worst risks were missing from the sample upon which this result could be calculated. It seems certain therefore that had scores been possible for all the cases (i.e. representative group of Borstal boys) there would have been many more in the higher score groups. From Table 15, for example, we know that there were 281 cases with Approved School records, but included in the material on which the prediction tables were based were only 143 cases. In the full sample we had 45% success, and 41% with Approved School backgrounds, in the sample which we could use for prediction table building we had 59% success and 87% with Approved School background. Thus in the sample used for the tables we had a heavy bias towards success and an indication of a bias towards lower scores.

VI.73 We cannot be certain how the distribution of scores would appear in a fully representative sample of Borstal boys, but unless we assume some most improbable complex interactions, the score and the probabilities should remain of almost constant relationship if we included the full sample. There is, however, an element of doubt whenever data are missing. In earlier studies the proportion of data lost has been even higher than in this study, yet the predictions have withstood practical tests. Indeed the authors of most caller works have not been very worked about loss of information and have often not required the configuration of data they used to be applicable to the same cases.

often not required the configuration of data they used to be applicable to the man even when the configuration of the configuration of likely success and likely failure is possible and that the precision achieved was greater than subjective assessment. Research along the lines indicated in this study seems to promise administratively useful results in the future. We have not tried to suggest "causes" and not perhaps to do "research" but to provide formulae which will help in the making of decisions. Decisions believe, likely be of great help.

#### CONCLUSIONS

VI.75 In the present case the simple methods which we have used (acting the cases into two definitely definable groups, those with and those without further convictions) give the same prognosis tables as if we had tried to predict the degree of success or the degree of fallitude, so far as we have been able to obtain measurements of these two more difficult and more nebubus concepts. In which we have the contract of the contra

VI.76 In the present case it is sensible to talk of, and to regard for purposes of decisions about the lads, the Group A's as better than the Group B's, and similarly the Group D's as worse than the Group C's, although the former would to our simple model both be regarded as successes and the latter as failures. Not only can we say that the A's are more likely to succeed, but that they are more likely to be more successful than the B's, and we may also say that the D's are more likely to fail than the C's, and more likely to fail badly. Since we have compared the "500" with the current work, it is only fair to state that this finding of ours reflects also on this earlier work and suggests that a similar result might have been derived by the Gluecks if their supplementary criteria had been similar, indeed their use of two categories of failure provides further evidence of the reasonableness of our result. The essential difference is in that our supplementary criteria were continuous variables, whilst theirs was a sub-classification. Tendency to crime thus seems to be a matter of degree-a continuum. The importance of this result is in that we may distinguish within groups as well as between group categories of risk. Given, for example, any number of cases, they might not only be grouped, but could be arranged in rank order of score, and this rank order would be meaningful in terms of degree of success or failure as well as probability of success or failure. The sole purpose of the division into groups A, B, X, C, D, was to enable the centre group about whom no discriminatory statement could be made, to be examined further. In any future study it would be profitable to look first for the hypothesised two dimensions and to modify the methods of obtaining the equations accordingly. We should look for the personal factors likely to make for success and the experience factors, and deas with these together, rather than operate first on the one, and then divide up the centre group. Lack of data about leisure and other such personal behaviour prevented this being done in this study.

#### SUMMARY TO CHAPTER VI

S.VI.1 Prediction systems must be simple, efficient, repeatable and valid. The system we adopted was a mathematical one. The data were treated as a set of equations which were solved, so that we refer to the results as a specification equation which may be used for prediction.

S.V.1.2 Besides the criterion of success/failure withits attendant task of sorting the "sheep" from the "goats" with every case defined as either a "sheep" or a "goat", we introduced further criteria which aimed at being measures of "sheepishness" or "goatishness" or "goatishness". The same system of equations was found to hold for both the dichotomous task and the task of gradings, and the weights

for the individual items were almost identical.

S.VI.3 Only 385 cases of the original sample of 7720 were used to build the prediction equations. This was because all the factors we needed were known for these cases. We did not consider it to be satisfactory to use information as

and when it was available.

S.VI.4 The factors which emerged from the equations after a process of selection for case of use where alternatives gave the same information (e.g. "probation" rather than early age of first conviction, etc.), were as follows:

For every factor which applies, count the number shown against the item. Add together. Result is basic score. To convert score into probability of success refer to GRAPH given as Chart III on page 147.

If evidence of drunkenness	24
If any prior offence(s) resulted in fine	9
If any prior offence(s) resulted in committal to prison or	
to Approved School	8
If any prior offence(s) resulted in a term on probation	,
If not living with parent or parents	•
at not fiving with parent or parents	7.5
If home is in industrial area*	8
If longest period in any one job was:	
Less than 1 month	
	11-7
Over 4 weeks up to 6 weeks	10.4
,, 6 ,, ,, 8 ,,	9-1
" 2 months " months	7.8
, 8 ,, , 4 ,,	6-5
, 4 , , 6 ,,	5.2
, 6 ,, ,, 9 ,,	8-9
,, 9 ,, ,, 12 ,,	2-6
, 1 year , 18 ,,	1.8
" 18 months	0

Any town where the ratio of the rateable value of industrial to total hereditaments exceeded 0.009.

S.VI.5 In the sample it was found that scoregroups (based on the above) factors resulted in the following risk categories:

Score		No.
		case
0-9-9	7 out of 8 cases successful	54
10-14-9	2 out of 3 cases successful	72
15-23-9	About average chances	161
24-39-9	1 out of 3 cases successful	82
40 and over	1 out of 8 cases successful	16
		385

#### ró=0-48

S.VI.6 It appeared that a further analysis of the centre group of cases could split these also into "sheep and goats" categories.

S.V1.7 If hehaviour in Borstal were included in the information available for prediction, these factors might be included thus: Original score number x

Add 2 for each absconding (recorded)
" I for each misdemeanour (recorded)
Suhtract 4 if sent to "open" Borstal.

S.VI.8 The score categories for hoth equations resulted in the following distribution of cases for this sample:

Score group	Risk category	% successful	N
Up to 9	7 out of 8	88	٠
10-17	2 out of 3	71	
18-27	Equal	50	
28-41	1 out of 8	81	
42 or more	1 out of 8	13	

#### ró==0-50

S.VI.9 The slight gain in specification is seen from the fact that r\$\psi\$ rose to 0-50 from 0-48 and from the fact that the best category now contained 7\$\psi\$, cases instead of 5\$\psi\$. The cutting points were of course arbitrary. When we adopted the procedure of requiring each class to be as nearly as possible equal in number. He result was

Score group	% successful	No. o
Up to 8	86	71
9-15	70	76
16-22	63	83
23-28	43	79
29 or more	28	76
		385
	-/ 0.40	-

S.VI.10 It is known that the worst risks were missing from the sample upon which the specification was calculated, and it was likely that had sores been available for the whole sample greater numbers would have been found with high able for the whole sample greater numbers would have been found with high able for the whole sample greater than the same that the sam

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then to this simple division we should classify correctly 194 oness and incorcetly 61 ff we decided that those whose score was bebew 18 were "sheep" and those with a score of 28 or more were "geats". We should thus be right in 77%, of the cases. The concept of right or wrong elassification is admissible here because only two decisions and an undetermined class are permitted. This result would be 59% better than chance and may be compared with 38% better than chance if all were classified by Sv.11a. This 88%, may be compared with 12% improvement on clanace which was secured by interpretation of the Governors' or Housemaster's prognoses. \*It is claimed that this study proved specification to be possible. It remains now to test this result on a

different sample at a different time.

SY1-11 The problem of the optimum period of testing has been examined insome detail and a mathematical method by which it is possible to identify when the period of follow-up is adequate has been put forward. Applying a shorter period of follow-up is adequate has been put forward. Applying a shorter exposure to risk of further crime was adequate to ensure no real change in the mean (or total) failure rate occurred after 1 year but this did not affect the power of the discrimination. It was thus seen to be possible to estimate the likeholo of failure for any defined period of exposure. This demonstration also clarified any difficulties of the control of the control

(an average of 24 years), and not to a mixed period or exposure. S.VI.12 Supplementary criteria which attempt to reflect the degree of failure, were shown to be correlated and no problems arise from the suggestion that a smaller probability of failure may be a worse risk because the smaller probability was associated with a worse failure.

\* Sec p. 170.

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# CHAPTER VII

# Precision and Validation

VII.1 We have shown that for the sample of Borstal intake representative of all youths entering Borstal training during the period August 1946 to July 1947 we may express the precision of specification by the coefficient of contingency (rø) with values of 0.46 and 0.50. In the former case (0.46) we used only factors known before committal to a Borstal and in the latter (0.50) included also factors which became known during Borstal training. These specifications are not "predictions" but rather a systematising of "experience". We need to show what would have happened if this "experience" had, in fact, been used at a later date for prediction purposes. The basic work on the building of experience tables was completed in 1952 and the draft report was prepared but the publication was held back until a validation study could be made. This was completed at the end of 1958, and this chapter was written at that date. The original draft has been left as written earlier so that no interaction could occur after the results of the validation were known. The original report was withheld mainly because the loss of information gave good cause for scepticism about what might happen if the experience based on a sub-sample were used to predict a complete population. We had demonstrated that prediction was possible to a level of precision likely to be useful both in research and in administration, but we were unable to state with any confidence that the equations (experience tables) could be expected to work satisfactorily on a later sample which was complete.

VII.2 The gain of 0.04 between the coefficient based only on pre-Borstal information (0.46) and on information up to the date of release (0.50) was trivial, especially in view of the greater utility of the former. We sought, therefore, to validate only the pre-Borstal experience tables. The latest date of entry to Borstal in the original sample was 81st July, 1947. We accordingly allowed one complete year as the time interval between the "experience" sample and the validation sample by taking the entrants from July 1948 to December 1948 for the prediction tests. We considered it to be desirable to test the prediction on a complete census \* rather than on a sample since this simulated more closely what, in fact, would have happened if the tables had been used in practice. It was also likely that in practice one of the two Reception Centres would "try out" the system of prediction first and this, too, was simulated. The complete intake of the Latchmere House Reception Centre was subjected to the calculation necessary to test the first experience table. Only information necessary for the calculations was obtained, together with information on subsequent success or failure.

#### VALIDATION TESTING TIME

VII.3 In the original sample the period of follow-up was variable and although we have shown that this was not able to affect the results except in a trivial sense, it made the evidence confused to some readers. Accordingly,

<sup>\*</sup> A "census" in this case may more correctly be thought of as a "sample in time" rather than a numerically or space based sample.

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in the validation sample we have kept to fixed periods. For the failure cases in the validation study the period crime free ranged from zero to 41 montiss. For the successes the period crime free or the form zero to 41 montiss. For the successes the period crime free of which we had information range from 36 months to 51 months. Since the when when chance that the pout who had had 36 months crime free might find turing the 37th month, we cut the period of follow-up at 36 months. This ilment that 17 failures who were successes at 86 months were accordingly reclassified. The reclassifications were due to one case who failed at 38 months and another at 41 months.

VII.4 The overall success rate for the validation sample was 49%, allowing a period of follow-up of 3 years (fixed). This compares with a failure rate of 45% in the original sample for an average period of 31 years. But the prediction tables were based on a sample which was selected because the data were available for all factors, and as a result we lost 47% of the original sample and our success rate for the base of the prediction was 57.5%. The sample upon which the tables were based was not, therefore, representative, having too high a success rate. Very considerable effort was necessary and much time was needed to ensure that for the validation sample no case was lost. This meant contacting the Governors of the lad's institution requesting the information relating to the "longest period in any one job". All other information was available centrally, but this item had a quite important weight and could not be ignored. Only one case from the 389 who entered Latchmere House in the period chosen was eventually lost. Since the original sample was biased it was unlikely that the validation sample would agree exactly. Differences between the original and the validation sample may thus be due to:

- (a) An improvement in the overall success rate for all categories, or some
- only.

  (b) The selection due to availability of data and bias in the base sample.

VII.5 If these facts could be sorted out, that is if the original sample had been complete or representative, we could have obtained much valuable data in addition to a general validation of the tables. We could, for example, have made some statements about the likely reasons for the change in the success It is clear that the 4% improvement could not be due to the slight difference to the exposure to risk alone, but we cannot say whether it was due to an overall improvement in the "material" or to better treatment, even if we made no assumptions about variations of a random nature. The differences cannot be explained because the original sample was incomplete and we knew nothing about the score and results for about half of the cases. If we were to make estimates of a statistical nature such as reducing the two success rates to equality, we should by so doing change the "exposure to risk" time underlying the results. The original sample upon which the prediction tables were based did not have a better success rate because the "exposure to risk" was shorter, nor necessarily because they were "better material", but because of factors outside our control, namely the availability of data. We know that availability was associated with success rate, but it

was not possible to find in what way. VII.6 In future, however, any recalculation of the tables based on samples at different times will provide information of the type discussed and other data of value in explaining any discrepancy in the success rates. The need for a complete (or fully representative) sample has been stressed throughout this report and it is regretted that we were able to achieve this only for the validation sample. It will be appreciated, however, that since this was the first study of its kind in this country it was not clear at first how this might be achieved. Indeed, until we knew what information was of value it would factors. Again, no difficulty of the strained of the strained of the factors. Again, no difficulty many the proprietient of it we had not required information about employment. Notes experienced if we had not

VII.7 There are a number of ways in which the results of the validation results may be compared with the original. We will limit our comparisons to a few of the main results. The major classification developed was the classification into the groups A B X c and D, where X was regarded as unpredicted prognosis. It was not possible to validate the second part of the teniny or prognosis. It was not possible to validate the second part of the teniny on that we are still unable to test our hypothesis that the "unpredictables" may be predicted by taking two independent measurements. We first give as AB X C D for the validation same, description classifier goints for the groups AB X C D for the validation same, description classifier goints for the groups.

TABLE 85

Results when the original prediction table was applied to the validation sample with each case having exactly 3 years' exposure to risk

	Original			Validation		
Category	Success No.	Failure No.	Rate %	Success No.	Failure No.	Rate %
A B X D	47 48 96 28 2	7 24 65 54 14	87 87 }75 Unpredicted 34 13 }81	52 38 50 27 0	12 18 76 56 9	81 68 38 0 29
Total	221	164	57	167	171	49

-0-46

VII.8 Thus, if we combine the two groups for which a prediction was made, we derive the following comparison:

Category AB Original—predicted risk (95/126)=75% Validation—observed risk (90/120)=75%.

Category CD Original—predicted risk (30/98)=31% Validation—observed risk (27/92)=29%.

VII.9 It is quite clear from the above that there was no difference between the predicted risk rate and the success and failures observed in the validation sample in respect of those cases for whom a prediction would have been made. In the centre (unpredicted) group the position is very different. In the original sample the centre group accounted for (101/889) 43%, whilst for the validation sample we observed (19088) 37%, that "unpredicted" cases (In the group the validation sample showed a success rate of 46%, as compared in the control of the control of

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analysis of the centre group along the lines suggested in our original two-stage attack on prediction because the necessary data could not be obtained. We are not, therefore, able to say whether, if this approach bad been possible, the difference would or would not have been resolved. Since no prediction was envisaged for the centre group, the tables may be considered fully validated. VII.10 A further use for our validation study might be to examine the effect of different periods of exposure to risk. If we cut the follow-up to 2 years we find that between the second and third year there were only 28 failures in the validation sample-a rate of just over \$% per month on average for that period. We derive the following table if we use the same equation as was originally established on an average follow-up of 31 years; with cutting points as before.

TABLE 86 Results when the original prediction table and cutting points was applied to the validation sample with only 2 years' exposure to risk for each case

Category	Success No.	Failure No.	Total No.	% Success
A	52	12 15	64 56	81 78
B X	41 63	63	126	50
D C	32 2	51 7	83 9	39 22 37
Total	190	148	338	56

VII.11 The bias in the success rates is now removed with the validation sample showing a rate of 56% compared with the original sample (for the tables) of 57%. The bringing into line of the overall rates has, however, effected an exposure to risk period. The table shows, however, there is still a good discrimination between the categories and the group which has changed most is the X "unpredicted" category.

VII 12 If we still further reduce the period of exposure to 9 months, again using the original cutting points, we derive the following table:

TABLE 87 Results when the original prediction table and cutting points was applied to the validation sample with only 9 months' emosure to risk

Category	Success No.	Failure No.	Total No.	% Success
A	55	9 7	64 56	86 87
B X C	49 96	33	128	74
C D	50 8	33 6	83 9	60 33 }58
Total	250	88	338	74

VII.13 Thus at 0 months the equation still retains an element of prediction and indicates that a system of testing which includes time is within the realm of possibility and likelihood. The number of cases failing is very small for groups A and B and the information contained in these cases is less than that of a similar number in the original sample. This is because in the validation study we were dealing with a complete intake, and not all individuals sampled represented a complete "degree of freedom". This will be clear when it is remembered that quite offen loss are concerned together in clear when it is remembered that quite offen it we case" entire will be corrected and some loss of information. The contract of the con

VII.14 The original cutting points were arbitrary except for the isolation of the centre group which was derived on the probability basis described earlier. We may not wish to use the scores derived from prediction tables to place the lask into categories but to arrange them in order of likely risk. The power of the prediction tables to achieve this ranking is, perhaps, best indicated by cutting the groups so that the runnbers in each estergy are approximately cutting the groups so that the runnbers in each estergy are approximately both pre-Borstal factors and Borstal factors. For the full period of follow-up, the figures of Table 85 (below) are obtained by this means.

TABLE 88

Showing the result of applying the original prediction tables and then dividing the resulting distribution into five groups as equal as possible in size

Score	Success	Failure	Total	No success
0-11-9	56	12	68	82 ] 74
12-15-9	42	23	65	65 74
16-20-9	27	39	66	41
21-26-9	23	45	68	84 30
27 and over	19	52	71	27 } 00
Total	167	171	838	

rφ=0-49
VII.15 Since such an arrangement allows for any change in the distribution

of the scores, we may not compare directly with the original tables, but we may calculate the coefficient of ré. In the original table, which made use of the Borstal factors as well as pre-Borstal factors, we derived an ré of 0-48 for a similar arrangement of the dats, whilst the above table gives a similar ré of 0-49.

#### COMPARISONS WITH EARLIER WORK

VII.16 Up to now we have used measures of association between one variable or factor and nonther, certain statistical systems which have in common of the property that they range from zero to unity, where zero indicates no association between the factors and the criterion (or other factor or variety to unity which represents complete agreement between the two items compared. We could compare the precision of our tables with that found by others by comparing these coefficients, but it might be of interest if we were to make our comparisons more simply and more directly.

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VII.17 We may test the precision by the simple device of considering how many cases were correctly classified by our tables and how many might have been correctly classified by others in other studies. We will first consider the efficiency of the Gluecks' predictions in "500 Criminal Careers" and compare them with our own in terms of the proportion of cases which would have been correctly predicted as becoming either successes or failures. In attempting this simple comparison we meet with some slight difficulty due to differences in the population to be sorted into the two categories. In the "500" (the previous work most similar to our own) there were found to be only 20% successes, whilst in our sample and in the population from which it was drawn there were 45% successes. Thus, if it was decided to regard all the cases as failures and no sorting was attempted at all, only 20% would have been wrongly classified by the Gluecks, whilst a similar decision to treat all cases as likely failures would, in our case, result in 45% being wrongly classified. Clearly we cannot directly compare the 20% wrongly classified with the 45% wrongly classified and conclude that the decision which resulted in only 20% wrong was a superior decision to that which resulted in 45% wrongly classified. In this sense the decision was exactly the same. In another sense it is a superior decision to regard all as failures where the success rate is as low as 20%, but how this is so will become clearer when we have taken our theory a bit further.

VII.18 The decision to treat all alike and to treat all as either successes or all failures is clearly challengeable. We need another measure by which to test the efficiency of any system of sorting into the two groups-likely successes; likely failures. Let us suppose that the sorting were being done by subjective judgments, and let us suppose that the basis for the subjective judgment was wrong. Let it be assumed that the basis for the judgment had no relationship with the facts at all, doing neither harm nor good. Let it also be supposed that the persons making these judgments are aware that the overall success proportion is, say, 20%, and that they make their judgments with this knowledge. (We shall later consider what would happen if they made a wrong assessment of the overall probability of success.) In such a case we can imagine a mathematical "model" of what would result from any such classification of criminals into likely successes and likely failures, and can say how many they would be expected to get wrong.\* We may suppose that there were placed into a "hat" 20 cards marked "likely success" for every 80 cards marked "likely failure", and that as the individual cases were considered (in random order) a ticket was drawn from the "hat" and the lad regarded as a success or a failure according to the lottery result. Such a lottery system is exactly analogous with a subjective classification which is not, in fact, correlated with the eventual outcome. (In this study, strikingly enough, broken homes would be such a factor.) We require to know how many cases would be correctly sorted by this procedure. Since the cases are considered in random order, the probability of any individual in the "500" study being a success is 20%; similarly, since there are 20 success cards in the hat, the probability of drawing a success is 20%. By elementary probability theory, the probability of a success case being correctly classified is

ood measure of efficiency.

<sup>•</sup> The term "expected" here has an exact and technical meaning. It is the proportion which they would get right if the number of cases sorted were very large. The number actually obtained in practice tends rapidly towards that expected as the number classified increases. The "expectation" is also the average of a number of trials, so that it forms a

thus  $(30\%, \times 20\%)$ , and the probability of a failure case being correctly classified as  $(90\%, \times 20\%)$ , and by addition, the total proportion expected to be correctly classified by a lottery system is in the "500" case, 68%. It will classified a flow in the contract of the correctly classified by a lottery system is in the "500" case, 68%. It will classe as failures. Using the same that obtained by the decision to regard this study, we derive the expected number correctly classified by pure chance as  $(40\%, \times 45\%)$ ,  $(45\%, \times 55\%)$ , addition where result than regarding all as failures where 50% would have been correctly classified. If, however, the population contained exactly 90%, failures, the texpected number for contained cascily 90%, failures when the expected number  $(90\%, \times 50\%)$ , and  $(90\%, \times$ 

VILIO In all these examples we have assumed that the right proportion of successes and failures were inserted into the "hat" before the lettery began. We shall now examine what happens if the correct proportion is not inserted. We have the proportion is not inserted to the proportion of the proportion of the proportion is not inserted to the proportion of the proportion

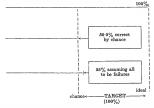
VII.20 Let us suppose that the assessor was dealing with the "500" (success rate 20%), but that he was optimistic and believed that the success rate would be, say, 40%. He might not express this belief in these terms, but might, nevertheless, act as though this were his basic assumption. Let us also suppose that in all other respects his action was unrelated to effective indicators of success or failure. He would then get correctly classified only 56% of his cases (20% × 40%)+(60% × 80%). If, on the other hand, he were pessimistic and thought that the overall success rate would be, say, 10% he would be right in 74% of the cases (10% x 20%)+(90% x 80%). In fact, the more pessimistic he became, the more he would get right until he reached the limit of absolute pessimism and regarded all as failures, and obtained 80% correct. The same argument would apply equally in reverse for optimistic assessors where the success rate was 80%. These specimen workings may be assumed as continued for all possible success rates, and for all possible assumptions of pessimism and optimism, and the result would be found to show optimists giving better results than pessimists where the success rate exceeded 50%, and pessimists giving better results than optimists where there were more failures than successes. The results can be summarised in the phrase that the best result is obtained when the assessor assumes that all cases are as the majority are; when, in fact, he accepted the statistical concept of probability.

VII.21 This argument, whilst possibly unnecessary in many respects, and inadequate in still more, it essential if we are to compare the results of the "500" with the results of this study in terms of the number of cases correctly classified by the experience tables. The ideal classifying system requires that 100% of cases are correctly classified-those regarded as likely failures will become failures and those who are classified as likely successes will all become successes. Since the different basic success rates give different proportions correct by chance, and different proportions correct on the basis of the simple decision to regard all cases as the majority, we need to modify slightly our concepts if we are to obtain valid comparisons to this criterion. We noted that by chance alone, in our case, 50-5%, of the cases would be correctly classified, whilst in the "500" 64% could be similarly correctly classified. We may make comparisons of the end results of the two studies by considering the distance to go to achieve complete accuracy of classification. In our case we require to classify correctly a further 49-5% above chance before we have achieved 100% correct classification. The Gluecks, on the other hand, require to classify correctly a further 32% to achieve complete specification. If we regard the difference between the chance classification and the required result of 100% correct classification as the "target distance", we may express this target distance as 100% and avoid the difficulty that in our case it is 49-5% and in the "500" it was 32%. We bring these two "distances" to the same base of 100% and may then compare the results of different classifications. For example, the decision to treat all alike as failures would result in the 20% success case in 80% correct as compared with 68% by chance, a difference of 12%. This additional 12%, when expressed as a percentage of the distance from target, becomes 87%. In our case a similar decision would result in a gain to the original scale of 4-5%, which when related to the distance from target, becomes 9%. Thus we derive a result in keeping with the intuitive assumption that the decision to treat all as failures is a "better" decision when the success rate is small (20%) than when it is larger (45%). To make this point clear a graphical presentation of this reasoning is shown below.



A similar diagram may be drawn for the present study showing a greater "distance" as the target, and reducing this similarly to 100%.

# TOTAL POPULATION WITH 45% SUCCESSES



VII.22 Unfortunately, too, comparisons with the "500" are not possible except for some of the single tables. This is because the number bases for the percentages are not given for the final score group.\* However, the final table (Table 112), which deals with factors known before entry into reformatory, provides the following analysis according to score groups.

Score group ("500")	% successes ("500")				
244-295	75 (regarded as suc-				
	cesses)				
296-845	85) regarded as				
346-395	26 regarded as				
898 and over	6 Ianures				

Of these four score groups for decisions of the type we are now considering, only the first one would provide any information since the rest would all be regarded as likely failures because more than half have failed. How many cases were correctly predicted cannot be known. The coefficient of contingency quoted is 0-48 and since this must have been calculated on the numbers, we might perhapse get a rough idea of the power of discrimination of this final table by considering autobre table where the "Table 105 of the "500" is quoted as giving a contingency of 0-48. The proportion correctly classified by this table is 70%—or a worse result than regarding all as failures of a cas this simple classification of cases is concerned. Table 105 gives a coefficient of 0-99 and the number of cases here correctly classified is 84%, and the total. This is 4% better than the result of regarding all as failures to the total. This is 4% better than the result of regarding all as failures.

<sup>\*</sup> Nor can the base numbers be derived for Table 112.

takes us 50% of the target distance from chance to 100% correct classifica-

VII.23 From these notes it will be seen that the value of comparisons between prediction studies where the proportion of successes is small and studies where the proportion of successes is near the 50% mark are difficult to appreciate; other factors than "right" or "wrong" classification enter into the consideration. The results of an optimistic or pessimistic approach differ considerably and judgments which are essentially similar (regarding, for example, all as failures, or all as successes) give widely different effects. This became most clear when we noted that in our case the decision to treat all cases as failures took us 9% of the target distance towards 100% complete specification, whilst the decision to treat the "500" as all failures would result in 37% of the target distance being covered. Thus it will be seen that the sort of statistical methods used depends on the kind of decisions which will have to be made; whether, for example, we are concerned only with "right" or "wrong" prognoses or whether we can find value in degrees of "rightness" or "wrongness" of the prognoses. In our final chapter we shall say a few words about optimum statistical methods, where we are able to include a concept, not merely of the dichotomy right or wrong, but of the degree of value resulting from actions based on statistical decision theory. We might seek to maximise the "good" of any result by taking into account the risk of making a wrong decision and the ill-effects, or penalty, attaching to wrong decisions.

VII.24 Using this model we may compare a few items from this study and its validation:

	Improvement on lottery			
Decision based on	The original study	Validation study	"500 Criminal Careers"	
	% of target	% of target	% of target	
Chance (lottery)	0	0	0	
Regarding all as failures	0	2	37	
Governor's reports	19			
Housemaster's reports	19		_	
Categories A B X C D regarding X as failures Categories A B C D (omitting centre	88	37		
group)	50	3/3	11	
Equal number groups Borstal and pro- Borstal factors	88		> See below	
Equal number groups pre-Borstal factors only	_	38	J	

VII.25 Thus we derive predictions that take us from 33–3%, of the target distance towards correct prediction of all cases into the two groups when the equations are applied to all cases. When the centre group is declared "m-predictable" we obtain predictions which take us up to 53% of the target distance. It will be clear from the fact that in "500 Criminal Carcers" 3%, of this distance would have been covered by regarding all as failures

(exactly the same figure as we derived from our first equation) that comparisons between the two studies are not simple nor direct.

#### CONCLUSIONS VII.26 Prediction tables derived from experience in the years 1946-7 have

been found to predict the likelihood of success or failure for cases entering Borstal one year later. Cases falling near the centre of the range of scores were not satisfactorily predicted. This result was expected and in the original work a subsidiary prediction system was derived to deal with this problem, but no validation of the subsidiary prediction table was possible because the necessary data\* were not obtainable, VII.27 The validation of the prediction tables does not prove their value for

any form of treatment other than Borstal, and changes may still take place with time. Continuing validity is not assured because it has been once demonstrated. VII.28 How valuable this result proves to be it is not within our province

at the moment to suggest. Eventually it will be possible for the Courts to know not only a lad's likely risk of failure if committed to Borstal, but to know also his risk for other possible treatments. It would then be possible for them to take into account in their adjudication the social needs related to justice and the likely therapeutic results, and to evaluate treatments accordingly. This is a development of the results we have already derived from a comparison of the "open" and "closed" types of institution and discussed in Chapter V. VII.29 A risk category can also be a useful signpost for after-care work. A

lad with a high risk is a challenge to the After-care Association. If they accept the challenge and find ways of making successes out of the most likely failures our knowledge of therapeutic procedures will be thereby increased. VII.80 Other ways in which prediction procedures can be of assistance both in administration and in research designs will doubtless become apparent as we become accustomed to manipulating the techniques. The main problem now is not how to predict, but what to predict and what weight or value should be attached to one result as against another. If treatment A gives the best chance of success, it is almost certain it will have other attributes which need to be offset against this simple probability related only to therapy.

VII.31 The basic tools exist and ways of developing them are foreshadowed -the way from here is full of promise but there are many ways to choose from. The close collaboration between scientist and administrator is now more essential than ever before

#### SUMMARY OF CHAPTER SEVEN

S.VII.1 The "prediction tables" derived in the ways described in Chapter VI were not "predictions" but descriptions-systematic analyses of experience. Since these tables are to be used for prediction we needed to make an empirical test of what would have happened if these same experience tables had, in fact, been used for prediction purposes. This procedure is known as validation.

<sup>\*</sup> This refers, for example, to pre-Borstal leisure activities, father's occupation and the like.

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S.VII.2 The validation sample was a complete intake to one Reception Centre (Latchmere House) in the last 6 months of 1948. A fixed period of exposure to risk of 8 years from discharge was allowed. Using the prediction tables derived from 1946-7 experience we obtained the following results:

Predicted risk categories A and B=75%. Observed result 90/120 = 75%.

Predicted risk categories C and D=81%. Observed result 27/90=29%.

S.VII.3 The "unpredicted" group differed considerably, but no two-stage prediction was possible. The overall success rate for the prediction (validation) study was 49% compared with 45% for the total original (experience) sample or 57% for the sample on which the tables were derived.

S.VII.4 The value of prediction tables depends upon the decisions which are to be made on the information derived from them. Their efficiency is also associated with the frequency of success in the population studied.

### CHAPTER VIII

### Individual Case Studies

### GENERAL OBSERVATIONS

VIII.1 For many years it has been customary in criminological researches to make use of individual case histories. We are not referring to publications which have as their main contents the history of individual criminals. such as some of the well-known books by Clifford Shaw (1) or Robert Lindner's "Rebel without a Cause"(2) or Frederic Wertham's "Dark Legend"(3); or to Sir Leo Page's "The Young Lag", where 28 case histories are used, without any statistical or typological refinements, "to paint a composite picture",(4) Nor do we have in mind studies relying mainly on the use of personal documents of the kind discussed, among other writers, by Gordon W. Allport in his "The Use of Personal Documents in Psychological Science".(6) Our reference is to researches dealing with criminological problems of a more general nature and applying statistical techniques to sociological or psychological data. Individual case histories have been presented, for example, by William Healy, (6) Cyril Burt, (7) Maud A. Merrill, (8) Powers and Witmer (9) in their researches into juvenile delinquency, and by the Gluecks in their follow-up and prediction studies referred to above. Erwin Frey (10) employs statistical mass-investigation, the more intensive observation of selected groups ("Reihen-Untersuchung") and individual case studies.

VIII.2 It may be pertinent to examine the objects of using individual cases instories in researchest of this nature. At the same time, we should like to make it clear that we are not dealing with the controversial problem of the respective ments of individual case studies and statistical techniques of in the respective ments of individual cases studies and statistical techniques of notion in a general way but only in relation to specific scientific objects, and the solution may differ in accordance with the specific noces in question.

VIII.3 (1) There is, first of all, the object, on which there is general agreement, of using illustrative case histories to lend colour to the grey statistical picture, thereby making the presentation more interesting and impressive and also more easily understandable. This may be regarded as the original and most obvious idea in this field.

The case histories are either given in a special chapter, such as the one headed "A Sheaf of Lives" in '500 Criminal Cases", or scattered over the whole work as in Cyril Burt's "The Young Delinquent". In the former publication, the purpose is defined by the Glucels as "be illustrate various points" and "to afford the reader a more realistic conception of the human beliens we call Griminal . ", "(ii)

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delinquency", <sup>118</sup> No attempt is made in that study to demonstrate the exact relation, or in fact any kind of relation, between an individual case and the statistical typology. In "Later Criminal Careers" it is stated to be the object of these case histories to show "the more subtle interrelationships of this and glores involved in the evolution and devolution of criminal casees" and "the influences that release the forces of moral maturation and also what influences block the state of the control of the contr

shows to be of no basic importance. (123) VIII.5 In "Criminal Careers in Retrospect", where 9 case histories are given at some detail, the authors make it clear that these cases are not necessarily typical of the group of \$510 offenders studied, but had been selected because they were identical with the cases described in the original study "900 Criminal Garcers", (138)

"500 Criminal Carees", "un la see histories of 11 women are presented in "500 Delinquest We, "ceremity precisely all the major problems of individual and social pathology". The various types are described not in testion to the statistical part of the study, but in impressionistic terms such as "victim of circumstance", "professional criminal", "black sheep", and so on. A cautious view is taken of the value of case histories which, the arthors state, "though they suggest hypotheses, supply no reliable estimate. The statistical method brines us mears to such a goal" 100. "He statistical method brines us mears to such a goal" 100.

The transtant memory companies are will become clear that, while the first VLO. (6) From the working case is the become clear that, while the first rule, been achieved, this can hardly be claimed for the second object. The third, and in our view most important, object to which we now pass has so far not even been tackled. We regard it as the specific task of case histories meantly in the companies of the compan

- (a) to give concrete libratrations of the various score classes of success and failures as worked out in the statistical part of the enquiry, with particular emphasis on the variety of factors and the diverse combinations of factors which may produce a particular score. This could be achieved by presenting for each score class a number of cases to illustrate, first, the possible diversity of cases within the same score class, and, secondly, to compare case of different score classes to see refrest on individual cases.
- (b) to pay attention to the emergence of typical patterns of cases and combinations of factors in order to work out a typology of cases related to the statistical score classes.
- (c) to make a special study of typical cases and, in particular, of cases which do not seem to fit into their statistical score classes, i.e. of individuals who, according to their score class, should have become failures but were, in fact, successes ("over-achievers") or vice versa

("under-achievers"), (18)

VIII.7 There are other purposes for which these case histories might be used, which are, however, outside the scope of the present investigation, such

as the study of the sentencing policy of the Courts and of the working of the penal system.

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(9) Edwin Powers and Helen Witmer, "An Experiment in the Prevention of Delinquency".

The Cambridge-Somerville Youth Study (1851, New York, Columbia University

Press). On it see above Chapter I. (10) Erwin Frey, "Der Frühkrimmhelle Rückfallsverbrechter" (1951, Basel, Verlag für Hecht und Gesellechaft). See above Chapter I, para 11.

(11) Sheldon and Elcanor Glucck, "500 Criminal Careers", p. 52.
(12) idem, "One Thousand Juvenile Delinquents", p. 191.

(12) idem, "One Thousand Juvenile Delinquents", p. 191.
(12a) idem, "Later Criminal Careers", pp. 145 and 196.

(December 1951), p. 840.

(13) idem, "Criminal Careers in Retrospect", pp. 145 and 196.
(14) idem, "500 Delinquent Women, pp. 28, 63, 142 and 185.
(15) Sec. e.g., Hilde T. Himmelweit and Arthur Summerfield. "British Journal of Sociology"

### SOME CASE HISTORIES

VIII.8 In the present study we have not yet been able to do full justice to each of the various objectives outlined above. We selected a random sample of every fifteenth of the 720 files originally used for the statistical investigation, altogether 48 cases, of which 46 were actually used. Thirty of these cases were found belong to the following statistical categories (see above Chapter VI, Table 81):

```
Class A (likelihood of failure 1 in 8): 3 cases.

"B( " " 1 in 3): 7 "
"X( " " 1 in 2): 16 "
"C ( " " 2 in 3): 3 "
"D ( " 7 in 8): 1 cases.
```

", D(", ", 7 in 8): 1 case.

The remaining 16 cases were part of those 335 which, on account of the inadequate information available on prediction factors, could not be used for the statistical study.

# VIII.9 Considering these 30 cases, of the

7	**	,,	В	4		22	8	**
16	,,	**	X.	8	29	**	8	,,
3			C	1	22	**	2	**
1	case		D	0			1	12

As our Classes A and B were given a favourable and our Classes C and D an unfavourable prognosis, whereas no definite prognosis could be made for Class X, it appears that 10 cases out of the 14 for which a prognosis could be made have been correctly predicted in the statistical part of our investigation. We shall now give the particulars of 18 of these cases, i.e. of the 14 cases in Classes, Ag. (a and D, and of 2 cases each of Class X and of those not used for the statistical study. These instrumental cases were selected in siphastical order. It will be of special interest to study the 4 cases in which the statistical prediction was "wrong", i.e. categories A and D no case has been wrongly redicted, as C. In the extreme

VIII.10 We shall also give the statistical score for each case, bearing in mind that our statistical score classes are as follows (above Chapter VI, paras. 36-40 and Table 81):

Class A : 0-9-9

"B:10-14-9 "X:15-23-9 "C:24-89-9

" D : 40 and over.

CLASS A (3 CASES) VIII.11 Case No. 1. Born: March 1926.

Conviction: 10.46. Pavilion breaking and larceny (2 cases) 3 years' Borstal Detention.

Physique and appearance. In both features and stature, he bears a remarkable resemblance to an American film star who generally plays the role of a slick, tough gangster capable of breaking down police and female resistance with equal case. He is 5 ft. 2\frac{1}{2} ins. in height and weighs 180 lbs.

Health. He fractured his left arm when a child. He suffered from meningitis at the age of 8 years and was concussed at 7 years. In his 10th year he fell from a bridge and fractured his skull and was said to be unconscious for 5 days. In spite of this history, the Borstal medical report states that in general he appears to be

fairly stable. He suffers from chronic psoriasis. I.Q. Col. 54%. Average intelligence.

Bordal Littory: Albested to an "open" Berstal Institution for mature lade. Berstal Reptide (1994) and cheerful disportion. He night well have been given a chance on probation. He lawy: Co-operative and amenable most allowed ones. A law, self-willed little fallow: Could do well if he change a favored ones. A law, self-willed little fallow: Could do well if he change and wently wellow. He was a self-willed first fallow: Could do well if he and useful worker. Keen to please. No guide in him. Maintaining high standards all round. Seems very gennine. Does not appear to be a had lot. Should be made to fed he "counts". He is prod-hearted but not very intelligent. "I know made to fed he "counts". He is prod-hearted but not very intelligent. "I know had he will be a heart of the counts." The second hearted he had not a heart of the second heart of the counts. The second heart of the counts are the second heart of the counts are the second heart of the second he

Home conditions. The eighth of 9 children. Lives at home with his mother. Seems to have no home life. Apart from self and young brother, the rest of the family are married and living away from home. The home is not very clean or tigy. School report: Home influence was poor and not conducive to the lad's welfare.

Some of the property of the pr

<sup>•</sup> Mr. G. W. Lynch, M.Sc. (Econ.) has been responsible for extracting the material from these 46 files. He has also assisted in the typological work, and we are much indebted to blum for his belp. Certain data, such as day of birth, days of previous convictions, place names, and similar ones, have bad to be omitted to prevent identification. Contradictory statements found in the records have been allowed to stand.

accommodation at home and pointed out it would be worsened by the return of his brother from the Forces complete with a well. In September 1940 there was some brother from the Forces complete with a well. In September 1940 there was some the second of the he is again tailting of going elsewhere. Junu 1909. In getting on very well, has a local little gift from (according to the heal) and they intend to get married in Masch 1941. If they cannot get accommodation elsewhere they will like with his mother. 1941. If they cannot get accommodation elsewhere they will like with his mother. 1941. If they cannot get accommodation elsewhere they will like with his mother 1941. The second of the second of

kept up any connection with the church.

Education. Attended three elementary schools until he was 15. He did not

Education. Attended three elementary schools until he was 15. He did not seem to make much headway. A very poor scholar in general but excelled in drawing and sketching. A good lad whilst he was in school. He was well hehaved and amenable to discipline. (His headmaster said he was intelligent.)

Social articulas. He is interested in constructional drawing and sketches a lot. He reads all kinds of fiction. He visits the cinema and likes to watch boxing matches, He does not partake of outdoor sport but does is lot of boxing at home. On discharge he means to attend evening school to study drawing and draughtsmanship. Tupe of userly. A newspaper boy for 6 weeks. Left on his own accord.

Type of work. A newspaper boy for 6 weeks. Left on his own accord. A labourer for 2 months. Dismissed. Collier's assistant—up to time of arrest. (62. 18.6. pc week.)

Work holds. He did not like colliery work. He said he carried out the offence to get money so that he could get away from the pits and got to see. Bersid report. A good hard worker and reliable. A not very tidy individual but he improved, on discharge from Borstia he immediately went ou U.A.B. assistance, for about a week. He settled to work in the pits one more and at the end of his first year on licence he appeared to be very interested in inning and was studying the subject in his space time. A few montiles latter he was injured our an underground shift and the pits of Very Will.

Lad comes from a Welsh mining area not classified as highly industrialised.

Discharged October 1947. Licence satisfactorily completed.

Discharged October 1947. Licence satisfactorily completed.

The failure score of this lad is 7-8 (longest period in any one joh: 2 months).

Comment: Although home conditions were not too good, this seems to be a case where, as indicated in the Borstal Reception Report, a Borstal sentence might not have been needed. Among his assets are constructive leisure activities.

VIII.12 Case No. 2. Born: December 1929.

Convictions: A conviction about which no details can be traced except that he was placed on probation.

6.47. Workshopbreaking and Larceny. 3 years' Borstal Detention. (Recalled off licence September 1949—failure to report.)

(Recalled off licence September 1949—failure to report.)

Physique and appearance. Dull, lethargic appearance. Hard features. 5 ft. 4 ins. in height. Weight 186 lbs. Deformity of left hand and dislocation of right elbow.

Health. Condition—fair. Physically weak.

1.Q. Col. 21%. Discharged from Army—poor educational attainments.

Mentally weak.

Personality. Elementary School report: An unreliable and untrustworthy boy who needed constant supervision when in school. Probation Report: A very unstable boy. Has a poor sense of moral values. Berstal History: Allocated to a "closed" Borstal Institution which at that time

received mature and immature lads. On reception—he seems a poor boob, no guts or go. Stupid and childish. He likes his own way. In trouble for "making a key". He was on the discharge list at the time and was therefore put back. Often in trouble for being idle and a persistent talker. A poor unambitious youth. Little interest in work. Was hardly noticed in the institution. Housemaster's opinion

re discharge: A shy immature youth, ill equipped for life outside. Weak and rather childish. Governor's report re discharge: A poor type of lad. Has done his best but is weak. May easily be in trouble again. He was discharged in Fehruary 1949, went into Army and was discharged in less

than a month because of poor educational standards. After great difficulty he was

finally placed with his old firm as a labourer.

Associate reports: April 1949, inclined to be lazy, needs watching. June 1949, O.K. at work, lax in reporting. August 1949, cannot get him to report, refuses to obey instructions, never at home when visited. September 1949, got his housemaster to write to him about reporting. His mother says he hides himself in the coal-house when Associate calls. Suggest recall. Is now a marked improvement since the visit to his home. Promises to report regularly. Two weeks later-has failed to report. A request for his recall made. Revoked licence—late September. October 1949, lad wrote to Borstal Associate asking for clothes on discharge. Discharged January 1950. The Associate asked that his colleague took over lad because he could not get anywhere with him. Agreed. February 1950, not satisfactory, did not sign on at Lahour Exchange until early Fehruary and he, therefore, got no money. Warned about another recall. March 1950, called at office to collect some overalls. May 1950 in spite of leaving many cards and making numerous requests to members of the family, he has not come near the office. July 1950, has been unemployed as long as 3 weeks but bas not been near Labour Exchange. September 1950, still refuses to keep in touch. Has done practically no work since last report and has not been in touch with Lahour Exchange. Report of case to the Prison Commission. End of September, the lad was at bome when the Associate called. He was taken to the Labour Exchange and a job was fixed up. November 1950, out of work again (see "work babits"), taken to the Labour Exchange once more. December 1950, visited 3.45 p.m., in bed. Out of work. "Signing on" May 1951. Out of work hut has got a joh to go to. Apart from all this he does seem to keep out of more serious trouble.

Home conditions. Poor home conditions. Family relationships. The father died when the lad was 15. There are 8 other children in the family whose ages range from 19 to 40 years. One son is crippled, one sister is an inmate of H- Colony, one daughter lives in lodgings and some of the children are married. Since his father died the lad has been allowed to come and go as he pleased. He is the youngest in the family. He takes advantage of his mother's generosity and she is not very good at controlling the lad. Housemaster's report: He is the youngest of a large family and thoroughly spoiled at home. Associate: July 1950, his mother does not seem to mind his irresponsibility. September 1950, an urgent message from his home to say he had left and could not be

traced.

Religion. Church of England. Education. Elementary School report; At school until 14 years. In low backward class. An unreliable and untrustworthy hov who needed constant supervision

when in school. He was amenable to discipline.

Social activities. He chooses the company of boys much younger than himself and is content to play in the streets. In the exploit for which he was subsequently sent to Borstal, his confederate was a boy 10 years old. He was a member of a Youth Club but was not very enthusiastic. He has no particular interests. Associate: September 1949, his mother says he is associating with undesirables. Associate: May 1951, he has attached bimself to a Youth Club.

#### Tupe of work: 1. Labourer-6 months-dismissed.

- 2. 6 3. work too dirty. 22
  - dismissed. 5. up to time of arrest.

He failed to obtain a trade certificate in Borstal. Associate: March 1949, Labourer with former firm. August 1949, back with old employer (had been "stood off" because of shortage of materials). September 1949, sacked. Two days laterresumed work. Two weeks later-has given up work. On release from recall, did not sign on at Labour Exchange for over 2 weeks. March 1950 found himself a job as a labourer-£5. 5. 0. per week. May 1950, now working for British Railways as an engine cleaner. July 1950, has changed his job three times since last date. September 1950, has done practically no work since last date. Has not bothered to get in touch with Labour Exchange. November 1950, has been out of work again. Taken to the Labour Exchange for the second time in a month. December 1950, in hed in afternoon. Out of work but signing on. February 1951, working for Corporation as a labourer for last 5 weeks. May 1951, out of work but got a job to

Work habits. Dismissed from various johs as unsatisfactory-mostly lazy, on another occasion for being continually absent, and yet again for being lazy, dirty and incompetent. Associate: April 1949, he is lazy and needs watching. September 1949, sacked for being lazy; (later in month) has again given up his job. February 1950, made an effort over the week-end to get a job. July 1950, has changed his job three times in 2 months. September 1950, done practically no work since July. November 1950, sacked for bad timekeeping and attendance.

December 1950, out of work, in bed, but signing on.

Lad comes from a large city not classified as highly industrialised. His failure score is slightly over 9 (prohation 4, longest period in any one job: 6 months=5:2). Comment: A good example of a lad who seems to be a failure in every respect except that he has not been re-convicted. Probably too lazy and passive to offend again. An illustration of the fact that our definition of "success"

means nothing more than absence of re-convictions.

VIII.13 Case 3, Born: June 1930, Convictions:

7.46. Attempted officehreaking. Probation 2 years. Possessing bousebreaking implements

Shophreaking and larceny. Pavilion breaking and larceny.

12.46. Officebreaking and larceny. Pavilion breaking and largeny.

Probation 2 years. 3.47. Assault with intent to obstruct. 3 years' Borstal Detention.

Being armed.

Phusique and appearance. Aggressive expression due largely to a protruding bottom lip. Poor physique. Height 5 ft. 74 ins. Weight 136 lhs.

Health. Fell off his bike when 10 years old and damaged his head (his father made this statement but there is no reference to it elsewhere), I.Q. Of fair intelligence. Third from top class at school when 14. Average

intelligence (school report). Borstal history: Allocated to an "open" Borstal Institution for immature lads.

Housemaster: He arrived weak, timid, self-pitying. He lived in his own world—surrounded by anxieties; the butt of other lads. Thoughtful, conscientious and kind. Is dreamy and forgetful. As he progressed in his painting work he got more confident about himself and more respect from others. He was a member of a gang. the leaders of whom thoroughly intimidated him. At first in the Borstal Institution he was frightened and aimless. Far too worried about himself. Finds it difficult to resist the suggestions of others. Reliable and trustworthy. A slow but thorough and enthusiastic worker. Has found that he gains respect by making his own decisions. He kept himself to bimself-kept away from the other lads for fear of being led astray. He regarded them as potential enemies. Is always polite, clean, 180

tidy and cheerful. He trusts only the members of the staff. Needs more energy and drive. His attitude to probation was not satisfactory. A weak type of lad who will be amenable to discipline. His intentions towards his family are good (concerning the wrongs he has done).

Discharged April 1948: Worked very well and saved quite a bit of money.

Home conditions. His father is a line-layer in very poor health. A good home. Has one brother aged 20. Home control not very effective. A good type of artisan home. School officer: The boy's home conditions are very good indeed.

On licence: Married and lived in parents' home.

Family relationships. Probation Officer: His parents took his probation very seriously and were always co-operative. When in Borstal he kept up a good correspondence with his parents. Governor: He is fond of his parents and means to do his best to help them. On licence: Married—wife a nice sensible girl, a good

influence.

Religion. Church of England.

Rengion. Choren in England.

Education. Left elementary school at 14. Record quite good. School report:

Weak character. Easily led. Not a likeable lad. School conduct satisfactory.

Sectiol criterities. He was in with a gauge, the leaders of which had so intimideated in that he was sected to return to his own district. About the offense-head at friend (adult) were armed with a "45 Coll and the friend struck someone on the heads with the intention toot. The lad was merely the hole-out. Polices: His assistant with convicted thirves and other persons of ill-repute. Fasher: Said and spent his with convicted thirves and other persons of ill-repute. Fasher: Said and spent his much as the properties and in carbon. He would do patiently and repute the much and the said of the said and the November 1940. If the said is the was exceeding a bay and they married in November 1940.

#### Type of work:

- 1. Office boy for 6 months.
- Office boy for 6 month
   Office boy 4 months.
- 3. Apprenticed engineer.
  - 4. Shop assistant for 2 months.
  - 5. Shop assistant for 6 months.
  - Signal boy on railway for 6 months.
     Shop assistant for 1 month.
  - 7. Shop assistant for 1 month.
- Painter for 1 week.
   Painter's improver 3 months.
- Painter's improver 3 months.
   On Reence: Plumber's improver 15 months.
   Tennis court surfacer 16 months.

Then worked for an optical concern.

#### Work habits:

Job 1. Left because he did not like working with girls.

- 2. Left own second.
  - 3. Dismissed: Misconduct and bad timekeeping.
    4. Left own accord.
  - .. 5. Left to join Southern Railway.
  - 6. Discharged because of his first offence.
     7. Left own accord.
  - , 8. Dismissed—unsatisfactory. 9. Left because of last offence.

Borstal work report: Very handy. Rather slow but not lazy. Is careful to the point of faddiness. Very good on theory (painting work). Should rise above the

point of faddiness. Very good on theory (painting work). Should rise show a lie level of the ordinary trademan. Is a keen and patient modeller in wood and plastics.

Discharged on licence from Borstal April 1948 and immediately got a job as a

himself. In November 1950 he changed once more for a still better job. Failure score: 9-2 (probation 4, longest job 6 months=5-2). Comment: The typical success story of a lad from a good home, lacking discipline and led astray by more determined associates. His Borstal training and

his marriage enable him to settle down.

### CLASS B (7 CASES)

#### VIII.14 Case No. 4. Born: July 1927. Previous convictions:

8.41. Stealing.

5.42. 1.45. Office and shopbreaking and lar- Probation 2 years.

ceny.

8.45. Wilful damage (2 cases).

4.46. Taking and driving away. 4.47. Larceny.

12.49. Drink.

2.50. Common assault.

Subsequent convictions:

Fined 10/-. Fined 10/-.

Probation 2 years. Costs 25/-.

Fined £3. Costs 6/8.

Fined £2. and 2/2 costs.

9 months' imprisonment.

3 years' Borstal Detention.

Physique and appearance. Blue eves and fair wavy hair. A heavy lower face and relatively narrow head. Expressionless and dull. He has a considerable number of tattoo marks on fingers, hands and arms and also appearing on his neck above his collar. Height 5 ft, 7 ins. Weight 125 lbs.

Health. No evidence of bad health until his period of licence when, in December 1951, he had been ill and his doctor said he was to change from merchant seamanship to a shore job. In July 1951 he was in hospital following an accident whilst doing farm work and which resulted in the amputation of his leg.

I.Q. Col. 45%. Mentally defective. Discharged from Army in 1945 after only 37 days of service including 14 days' leave and 4 days absent without leave. Discharge Report: Failure to reach the required standards in the various selection tests set a recruit on joining the service.

Personality. Probation Report: Weak and easily led. Unresponsive. Wormwood Scrubs, May 1947; Wilful damage to a pair of boots, 5 days No. 2 diet, 2 days no association, 10 days no privileges. Allocated to a "closed" Borstal Institution for mature lads. March 1948: Borstal history: Improper conduct (having led another lad in bed with him at 10.20 p.m.), 14 days No. 2 diet. Reduced grade to probation for 3 months. June 1948; Absconding for one night. 9 days C.C. 9 days No. 1 diet. 21 days No. 2 diet. Reduced grade to probation. History: Wormwood Scrubs: A queer fish-unreliable and untruthful. Has made up his mind to work and keep out of trouble. Is gradually becoming less indefinite. A very quiet type. "Gutless." Goes with the tide. Very little change—keeps very much to himself. Governor's discharge opinion: A rather solitary lad. Housemaster's discharge opinion: A peculiar, silent youth. Has only gradually

asserted himself. Discharged Mar. '49, On Reence: March 1949, not co-operating. Warning letter sent. April 1949, letter sent to him warning him about his associations. December 1949, a big improvement in him. He reports regularly when ashore. February 1950, charged with assault. Warned about his behaviour.

Home conditions. The home is in a working-class district. Fairly clean and comfortable but poor. He was evacuated from school in 1940 but he returned after 3 months because be could not settle down. In June 1950 be married and lived with his wife in two rooms in his mother-in-law's house.

Family relationships. His father is a machine-hand. He has a stepmother, two brothers, two sisters, one stepbrother and five stepsisters. Four stepsisters have been convicted of larceny. One stepbrother and one brother have been convicted of larceny. There has been only one offence in each case and the last of these offences was in 1941. The police know nothing of detriment about the stepmother. Probation report: Both parents are of good character. They spend their time at bome and are temperate. Their bome is clean and well cared for. Both parents are kindly disposed towards him and the family altogether appears to be a happy one. The parents are a bit too easy-going. He is the eighth child of a family originally comprising 11. There was considerable correspondence between the lad and members of bis family whilst be was in Borstal. His father says: "He is a very good boy and all right when on his own." The mother says: "He has always been a very good and willing lad." He married in June 1950. From then until the end of his period of licence the Associate reported that his married life seemed very satisfactory and that he took his family responsibilities very seriously.

Religion. Church of England.

Education. He attended an elementary school and was evacuated in 1940. In October of that year he started work (when he was 18 years old). The standard be reached in his school is not known. His conduct was believed to be satisfactory. Social activities. Probation report 1947: When younger he was in the Boys'

Brigade. He has not been in touch with any youth organisation since leaving school. His associates have been fishing lads. For some months be has been keeping company with a local girl who is rather unstable. His spare time is spent in dance halls and cinemas, etc. His father said the boy spent most of his spare time at bome but made occasional visits to club or cinema. His mother said be spent his spare time at the pictures or at home. His father said the lad would go to sea and earn good money and when he came home at the end of a spell at sea be would meet his pals and treat them to a few drinks and then the trouble would start. Within 2 weeks of being discharged on licence he could not accept a starting date

of a job because he was expecting a girl friend in the A.T.S. to come home on leave and they were intending to become engaged. He also immediately returned to keeping bad company. In August 1949 he was said to be courting a girl and so keeping away from bad company. In December 1949 be was fined for being drunk. In May 1950 the Associate learned that his girl friend was expecting a baby.

Type of work:

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- 1940. Lather boy. 12/6 per week. 3 months. Not known wby he left.
- Paper roundsman, 7/6 per week, 8 months. Left on own accord. 1941. Box maker. 14/- per week. 2 years. Dismissed for irregular timekeeping.
  - 1943. Cinema doorman, £1, 10, 0, per week, 2 months, Dismissed-lazv. 1943. Deckhand. £4. 0. 0. per week. 4 months. Left own accord.
- 1944. Cinema doorman. £1. 5. 0. 3 months. Lazy and unpunctual.
- 1944. Errand boy. £1. 10. 0. Left to go on fishboats. 1944. Deckhand. £4. 0. 0. plus bonus. 6 months. Left-poisoned hand.
- Many fishboat jobs followed. Enlisted August 1945. Discharged September 1945.
- Then on boats again until April 1946 when sent to prison-

October 1946. Work in a canning factory. Left after I week, because his stepbrother was discharged.

Then a labourer on the railway for 2 months. Left to return to ships. Deckhand until be was sent to Borstal.

On licence: from 10.8.49. April 1949, signed on a trawler. August, signing on at Labour Exchange. Late August, worked as a labourer for I day. October, working in a lightship.

February 1950, left lightship. March, still out of work.

April 1950, back on trawlers (in Scottish waters). July 1950, working as a boiler scaler back in Lowestoft. December 1950, back on the fishboats. December 1950, back on the fishboats. December 1950 has left the sea (edector's orders) and has a job on a farm (milking cows and looking after horses, etc.) March, heen out of work and in the meantime has returned to the fishboats. July settlement to fower work and on the scale of the s

the fishboats. July, returned to farm work and met with accident.

Work habits. Lazy. Irregular in job (other than sea jobs, where he appeared to

give satisfaction). Bozstal work record: Gave satisfaction. A quiet plodder, Could be trusted. Did not bave to be told everything. After discharge on licence. July 1949, employers very satisfied with him. August,

"blacklisted" by boat owners because he did not return to the ship after a week's holiday. He said it was not his fault be missed a train connection. He liked working in a lightabip because he preferred the solitude.

Lad comes from a fishing town. Failure score: 18 (probation 4, fined 9).

Comment: In spite of two subsequent fines, he counts as a success. Received his Both size an enter eafer zerving 0 months in prison. On the debit side are low intelligence and bad conduct in Borstal. Several "steps" with criminal listories, but home and family relations otherwise good. This, together with a happy marriage, may explain the absence of serious trouble after discharge.

VIII.15 Case No. 5. Born: October 1924.

Previous Convictions:

1.46. Larceny. Bound over in sum of £5.
10.46. " (9 cases). 3 years' Borstal Detention.

(2 of these cases amounted to over £600.)

Physique and appearance. A rather unfortunate appearance. He has a long thin head and deep recessive eves out of focus. He wears spectacles towards the end of a

long nose and he has slightly protruding irregular teeth and hammer toes. Height 5 ft. 7 ins. Weight 130 lbs. Health. An epileptic. He fell and injured the front of his head when he was

Health. An epileptic. He fell and injured the front of his head when he was about 12 years old. He was unconscious for a few bours and fits commenced the next day. He had five or six a day for the next two years or so. Poor health interfered with many of his jobs and severely limited his choice.

Personality. (His first crime could never have been discovered if he had not confessed.) Instability due to epilepsy. School report—seemed to like the limelight and to cut a dash. A spoilt child. Local prison: rather erratic mainly because of his history of epilepsy. Stole over £800 from his mother to impress a girl with whom he had been corresponding-be had never seen her. (With the money he stayed in a hotel.) A case where strong discipline is needed. He throws the towel in easily. Has been coddled by his mother. Borstal history: Allocated to a "closed" Borstal Institution for immature, hackward lads. Untrustworthy-goes out of way to give false impressions. Two-faced. Absconded—recaptured same day. Absconded again. Refused labour. A poor actor-spincless and weak. Unable to stick a job for very long. Does not consider the consequences of his actions. Housemaster, although a doubtful quantity, he has earned an exceptionally good report from his party officer. Towards the end he was unusually well behaved. He was discharged in October 1948 on licence and was kept banging about for 4 months whilst waiting to be accepted into a Rehabilitation Centre. First he wanted to be a clerk and was rejected, and his second choice was market gardening. He became very fed up and miserable. In April 1949 the impression was received by the Associate that something was wrong at the Rehabilitation Centre. Apparently there was some concern because of his plausibility and lack of effort. Nothing was said about his fits but hysteria was mentioned. In July he told the Associate be hoped to marry a girl in September (he had already hought her an engagement ring) but he also said his mother did not know anything about his ideas in this direction.

Home conditions. His father-a cafe proprietor-died in 1941 from heart trouble. His mother has two cafes and his sister looks after one. Enough money is earned in the summer to live through the winter. He was horn in C--- and lived there until he was 11 years old. In the summer he lived in lodgings in Swhere his father had a cafe. He married in October 1949 and lived with his wife in his mother's house. In July 1950 he bought a house in L--- through a building

society. Family relationships. He has one older sister who is married and living apart from her husband. He is on very good terms with his mother, who bears him no ill feelings for taking over £600 from her. The lad's health has always called for extra care and his mother has always helped him. His sister took him to school until he was 12 years old. In the opinion of the Probation Officer, the mother is apt to spoil him. He corresponded well with many of his relations, including an aunt and grandmother, etc., and one or two young ladies. In May 1949 he called on the Associate when on his way down to London to visit some friends. He was looking very smart and was able to make this sort of trip on the strength of money his mother gave him.

Religion. Church of England. He attended Sunday school and church in his schooldays but it was sufficiently compulsory to make him dislike it and prevent him

going since.

Education. Moving to S-each summer made his schooling erratic. His last school report described him as being 2 years retarded and rather a baby for his age. He was described as honest, truthful and amenable to discipline in his schooldays. It was further pointed out that he did not receive proper schooling because of his fits. Social activities. He was fond of dancing and attended the cinema regularly.

He had no particular associates and was frequently seen out alone. In May 1949 he appeared to have a regular girl friend in S-..... He married in October 1949 and in January 1950 he seemed settled. In July 1950 he was living in his own house

and his wife was expecting a baby in December.

Tupe of work. Had about 11 jobs since leaving school. Worked as a lahourer, page-boy, and later in a N.A.A.F.I. canteen for 6 months. For the next 3 years he travelled the country with his mother as her assistant (she was working as a canteen manageress). In 1945 he worked as a labourer in London on the bomb sites. This job lasted 10 months and he received a wage of £5, 18, 0, per week. He liked London very much and he stayed and got a job in a toy factory. Later, his mother used her influence and he got a joh as a bathroom cleaner and earned 23, 15, 0, per week and all found. He left this job suddenly hocause it was then when he took his mother's money and went to H---. In June 1949 he was working as a lathe-hand in L---for £4. 0. 0. per week.

Work habits. He has left many jobs suddenly and without reason, but there is no doubt his health complicates the issue. He was dismissed from the toy factory because he was near machinery and might have been involved in a serious accident in the course of a fit. Before he obtained work as a lathe-hand in L-, his mother refused to let him sign off the Lahour Exchange. He had been out of work some time and further refused to help her. At that time she said she was finished with him because of his attitude. During the last year of his licence, he was in regular work as a lorry driver's mate and seemed settled satisfactorily.

Failure score 10-1 (not living with parent(s) 7-5, longest period in any one job

2.6). Comment: His main handicaps are epilepsy and low intelligence, but he is greatly helped by a fairly well-to-do mother and a happy marriage.

VIII.16. Case No. 6. Born: February 1927. Previous convictions:

11.40. Stealing.

Bound over on Prohation, 1 year. 5/- costs-

Local Authority.

Charge withdrawn on being handed over to

Authority). 1.44. Breaking and entering an office. Probation Order, 2 years. 2.47. Larceny (18 other cases taken into 3 years' Borstal Detention. consideration).

Subsequent convictions:

3.41. Breach of Recognisance.

8.42. Possessing ammunition.

4.50. Housebreaking. Recall. 7.50. Housebreaking (2 cases). 2 years' imprisonment.

Physique and appearance. Right leg artificial. Height 5 ft. 9 ins. Weight 156 lbs. A rather flabby appearance. Bad scars on forehead and left check and right hand. His right leg was amputated when he was 11 years old-was said to be due to receiving a kick whilst playing games. (School says he was injured climbing in a huilding partly demolished.) Health. O.K.

I.Q. Col. 85%.

Personality. Elementary School report: Dishonest from the age of 7 years. Untruthful and a very bad influence in the neighbourhood. Truanted a lot at school. Was a persistent juvenile delinquent. Was treated by the school psychologist, who got nowhere. Probation report: Was a member of a gang when doing these acts. A very deep lad. Father: The boy has been weak-willed ever since his amputation. Allocation Survey: The lad has ability. He knows he has been a hit of a cad and is ashamed about it. Has used his artificial leg to get sympathy. Says he can play football: needs no sympathy. Borstal History: Allocated to a "closed" Borstal Institution for immature lads. Considering his bad record he has done well. He makes light of his disability-is active and has plenty of energy. Is keen and co-operative. Is heading for trouble. He is antagonistic unless he thinks he has one's sympathy. Housemaster's discharge opinion: A cheerful type. Wins one's admiration by making light of his disability-hut he has a poor record.

Discharged October 1948.

Home conditions. Working-class parents (father and stepmother). Father a holler man. (In Army at time of investigations.) The father remarried in 1940. Home conditions are good. The street and house can be described as reasonably good. Elementary School report: The mother died when the children (two boys and one girl) were very young. The stepmother is very respectable and has three

children of her own-never in trouble.

Family relationships. A young brother was in an approved school. When his father remarried in 1940, he lived with his stepmother and then with his aunt and later with friends. He returned to live with his parents in 1946. He does not get on with his stepmother. Is on good terms with his father. The father says his son has been out of his control from 1939 to 1947 (father spent most of this time in the Army). Prohation report: Relationships with parents rather strained at present. From 1940 he was troublesome-stealing, etc., and out of control. Elementary School report: The stepmother was never quite able to handle the stepchildren. In April 1950 he was living in lodgings in S- because his parents had asked him to leave the house (he would not work). In May 1950 (when on bail) he was living with

his aunt and uncle in S----. of Labour course in boot-reparing.)

Religion. Church of England. Education. Elementary School report: He went to a special school (as a cripple) and learned shoemaking. His attendance at the Elementary School was very unsatisfactory (much truanting). (On release from Borstal he went on a Ministry 186

Social activities. He was a member of a gang. His associates were committed for trial with him. He was a bad influence in the neighbourhood. His father said the lad spent his time at the cinema, football matches, and in billiards halls (his father called them "the usual entertainments").

Twos of work. On leaving school-2 months in Corporation Salvage Dept. Then 3-4 months-tyre makers. Then a shoemaker for a short period. A machinist for bag makers for about a year. With builders for 1 year. Then back with bag makers up to time of offence for which he was sent to Borstal. On release from Borstal (October 1948) went on boot-repairing course. (This did not seem to materialise-or was a very short course-because at the end of October he was

working as a liggerer in a pottery works.)

Work habits. Left bag makers on the first occasion because of staff reductions. Was dismissed from builders because of dishonesty. Following his release from recall (April 1950 recall, released November 1950), he was dismissed from two jobs for insubordination. A third job he left after a few days because of a discorrement with his employer. In April 1950 he had been turned out of his parents' house because he would not work (and apparently would not sign on at the Labour Exchange). Borstal: A good worker-plenty of energy. Lad comes from a highly industrial area in the Midlands. Failure score: 13-8

(probation 4, highly industrial area 8, longest period in any one job one year, i.e. 1-3). Comment: Judging from his statistical classification he is an "under-achiever". In the light of his record, however, failure was not unlikely. His only

advantages are a high Columbian test score and a good work record in Borstal. Otherwise, practically everything seems to have been against him: a serious physical handicap, a history of early delinquency, truancy, gang membership, difficulties with stepmother.

VIII.17. Case No. 7. Born: February 1928.

Previous convictions:

4.45. Larceny.

Unlawful possession. 4.46. Wilful damage.

3.47. Taking motor-car with-

out owner's consent and possession of housebreaking implements by night,

Subsequent consictions:

Attempted shopbreaking. (Larceny-not guilty.)

9.49. (Charged with stealing and breaking open a gas meter-not

ouilty.) 8.52. Larceny of motor-car.

Probation of Offenders Act. 20/-Bound over own recognisances £5. 2 years and pay costs. P.O.A.

with residential conditions. 3 venrs' Borstal Detention.

Recall Borstal training.

Result unknown from Borstal Association records but a note in September 1952 states "will apply for recall".

Physique and appearance. A rather handsome-looking lad with a defiant expression. Height 5 ft. 84 ins. Weight 150 lbs. Health. Normal but he shows some anxiety about his state of health. (Army category-Grade III.)

I.Q. Col. 49%. (Volunteered to join Army but failed in education test.)

Personality. Allocation Survey: He is a restless individual. Has a habit of quarrelling with those over him. An irresponsible lad with a light-hearted attitude to life. His attitude to probation was indifferent. Of himself, he said in 10 years' time he would like to have a wife and a bouse of which be could be proud. He is very careful about his appearance. Borstal History: Allocated to an "open" Borstal Institution for mature lads. He absconded on four occasions. He later came to be bead boy in kitchen for a short period. Received very good work reports (obtained assistant cook's certificate). Housemaster's Discharge Opinion: A pleasant lad but immature. Cheerful, willing but a rather weak character. He received consistently good work reports. At present is the head boy in the kitchen at which he is doing remarkably well. This has given him confidence and has proved very beneficial. Should do well in the Army Catering Corps as a cook. His I.Q. is slightly under average and he is a rather weak character but he is a consistent trice. Governor: He is rapidly growing up and will further mature before discharge. A thoroughly nice lad in snite of his home background. Discharged 16.9.48. In November the Borstal Association reported his conduct was good. From the middle of June 1949 he became increasingly difficult and tended in the main to ignore the requirements of the Borstal Association (very difficult to get him to report). In February 1950 be was continuing to ignore Borstal Association's letters. On his Court appearance in February 1950 he was recalled for further Borstal training. On his return to Borstal he was found to have changed-he was now bitter and cynical. He later indicated that the home is the real cause of the trouble and he said he was not sure whether to return there. "He resents correction. He is well on his way to Dartmoor." Is an excellent leader. Making good towards the end of the second period. Second discharge 30.11.51.

Home conditions. The father is a merchant scaman and away from bome for long periods. Three brothers-one ex-Borstal, another at present in prison. Five sisters, all working. One sister and one brother older and two brothers and four sisters younger. A very poor home in a very poor neighbourhood. One married sister occupies a room in the mother's home. The ex-Borstal brother keeps a stall (he was caught with the lad in a stolen car complete with housebreaking

implements). A terribly overcrowded bouse. At one stage be had no fixed abode; be was living as a rag and hone merchant.

Family relationships. He thinks the married sister tries to be the boss in the house. It was following a quarrel with ber that the "driving and taking away a motor-car and wilful damage" charges occurred. The mother is friendly but in poor health (suffers from heart attacks). The eldest brother was turned out of the bouse by the father. In 1947 the police said be was not on good terms with his parents. His mother said he was really an "at home" boy who had come under the bad influence of his elder brother. He has very strong feelings against his married sister, who he thinks is so bossy. He has complained everywhere about this married sister. He is on good terms with his mother. In December 1948 be phoned the Borstal Association and said he had had a "flare-up" at home and be was worried because his brother was just out of prison. January 1949, home relationships again strained. In July his mother complained that he would not work and stayed in bed until noon each day. It seemed his girl friend was keeping bim in cash. The lad was sleeping rough with another lad. November 1949, Borstal Association records that the mother is very fed up with the lad but the Borstal Association thought she might alter when he started earning some money.

Religion. Church of England. Went to Sunday School regularly but has not

been to church since leaving school. In Borstal he was "anti-church" and said:

was below average.

"It's about time someone refused to go to church." Education. His school record was good. His attendance was very good. He was honest and truthful. His ability was normal but his educational attainment Social activities. He belonged to the Army Cadets and was a keen drummer.

Keen on boxing. Most of his companions were the "money without work" variety. The rollice said all of his known associates had been convicted of theft.

Tune of work. He was truck loading for a year, 35/- per week; builder's labourer (8 months), 40/- per week; labourer in glass works, 3 months, 60/- per week; labourer in glass works, 3 months, 25 per week. Then many and varied jobs the drove a horse and cart for a rag and bone dealer), none of which he kept for long. He volunteered for the Army but was rejected. He said he wanted above all to set into the Merchant Navy as a cook. Following his first discharge from Borstal he obtained work as a labourer. In April 1949 he was working as a cook. In July 1949 he worked for a short time as a cleaner in a factory. In September 1949 he was working for a sub-contractor. In November 1949 he was supposed to have started work in a glass works. Following his second Borstal discharge he again started work as a labourer. In January 1952 he was working as a "mixer" and getting about £10 per week. In March 1952 he volunteered for the Army and signed

on for 3 years. Work habits. He received very good work reports in Borstal Institutions (shtained assistant cook's certificate). He quarrelled with most of his bosses. The police said he was discharged from most of his jobs as unsatisfactory. He was discharged from one job as being lazy and he left a couple of jobs on his own accord. Following his first discharge from Borstal, he gave up his initial labouring lob after he had been involved in some domestic trouble at home. He spent considerable periods out of work and stayed in bed for most of the morning time. He was dismissed from the glass works in November 1949 because he turned up for night shift with others and they were all drunk and he manhandled the timekeeper. He otherwise had a good record at this concern. He was out of work on each ormsion of his arrest. He very much liked working for the rag and hone merchant, and had a hankering for working in fairgrounds.

Lad comes from a highly industrial area in London. Failure score: 18-8 (nmbation 4, highly industrial area 8, longest period in any one job 1 year=1-8). Comment: He, too, is an "under-achiever", but in his case real deterioration seems

VIII.18 Case No. 8. Born: July 1928.

to have set in after his recall.

Previous Connictions: 9.44. Larceny.

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Bound over in sum of £5. Probation 2 years, costs 7/6.

5.45. Larceny (3 other Bound over in sum of £5. Probation 2 years, cases taken into costs 5/-. consideration).

12.46. Larceny. 3 years' Borstal Detention.

Physique and appearance. All of his features appear over-emphasised. He is deep-eyed, shaggy-browed, large nosed, thick lipped, etc. Height 5 ft. 61 ins. Weight 135 lbs. Health. Consumptive bowels. Far from robust.

I.Q. Col. 40%. School report: Low mentality.

Borstal history: Allocated to an "open" Borstal Institution for immature lads. Is seriously bad health responsible for his action? He works well and his conduct is good. A weak, feeble youth. Works steadily; untidy. Anxious about his mother. Housemaster's opinion: He is a weak, quiet lad who has worked steadily. Is untidy in appearance. Governor's report: The product of an unsatisfactory home and separated parents. School report: No energy. Gave little trouble when at school. He was quite a likeable boy. Difficult to get him to keep in touch with

the Associate. Home conditions. Borstal record: A poor home and bad background. School report: A very poor home.

Family relationships. Governor's report: His parenta are alive and well. They

are living apart. His mother is 59 years old and the lad has lived with her. He has there brothers and a stepsister. One bother is in Borsait, another in a Homeo Office Approved School and the third is in the Army. His stepsister is married. The father is at present vilving in aucher part and the mother has very little central over the family. Borstial Association record: His return to lis home is not recommended. The stepsisters and borother-liss-way who live in a prefativated bross with their free stepsisters and borother-liss-way to live in a prefativated bross with their free stepsisters and borother-liss-way to live in a prefativated bross with their free stepsisters and borother-liss-way to live in a prefativated bross with their free stepsisters and borother-liss-way to live in a prefativate of the work of the stepsisters are stated to be a statistical to the state of t

In April 1848 he was discharged on license and went into the Pioneer Corps in the Army. On demolisiation in March 1896 he went back to his mother's home and shared one bedroom with his two brothers. When he returned home after demolilisation there were many quarries between the brothers and the police had had to be called to quieten them. In September 1890 the Associate reported that the mother should be a superior of the superior that the mother than the superior which we do not also the superior when the reposition of the superior than the superior that of health and use was printled and constantly complained

Religion. Church of England.

Education. He was sent to a Special School and the report says he was placed in a class for backward children in an open-air school. His mentality was low and he had no energy. He gave very little trouble when at school. His attendance was poor and spasmodic.

Social activities. Police report: His character is not good. He associates with vouths of his own age.

Type of work. August 1942-November 1942, roundsman. December 1942-

March 1948, labourer. April 1948-March 1948, driver's mate, £2. 15. 0, per week (tongest job) onontha). April 1945-October 1945, labourer, £5. 16. 0, per week. In Borstal he was a farm labourer and liked it. He wanted to take this up on his return house following demolsification, he obtained a job in a metal casting firm. He was on night work and expected to get about £8. 0. 0, per week.

Work habits. He left his first job on his own accord. He was dismissed from the next two jobs and his fourth job came to a finish and his services were dispensed with. In Borstal he was said to work steadily. His military record referred to him as "Very good, ckan, honest, reliable and hard worker."

Failure score: 6-8 (probation 4, longest job 9 months=2-6), and his classification under B seems to be a mistake. Comment: Statistically and in fact he is a success, surprising though this is in the

light of his history: poor health, low intelligence, a broken home.

VIII.19 Case No. 9. Born: October 1929.

Previous convictions: 11.41. Storebreaking and larceny.

1.41. Storebreaking and larceny. Bound over on Probation 12 months.

3.48. Stealing milk from doorstep. Bound over on Probation 12 months.

5.47. Shopbreaking and larceny. 3 years. Borstal Detention.
Physique and appearance. An expression of bewilderment. Height 5 ft. 8 ins.
Weight 147 lhs. Little finger of left hand deformed. Slight build. Tattoo marks

on both arms.

Health: Fit.

I.Q.: Col. 88%. Average intelligence. Allocation Survey: Low intelligence. Personality: Allocation Survey: A bright, alert, clean lad. Borstal history: Allocated to an "open" Borstal Institution for mature lads. A weak lad. Works well in the kitchen. Mature. A good deal of character. Very easily led. Very cooperative. Governor: He went with the other two men on the last job because

they said he was "windy". A cheerful lad who has done well. Housemaster: A pleasant cheerful youth who has never given any trouble since he arrived here. Is this a case of having got in with the wrong crowd? He is very well mannered and a

190 good mixer.

Home conditions. Mother, father, a married brother, his wife and 8 children, a single brother and P- live in the same house. Nine in 5 rooms. Two brothers are away from home. The home is described as poor and overcrowded. It is clean but very untidy (washed clothes hanging up in the sitting-room and strung across the hall). The Probation Officer blamed the crowded home as well as lack of paren-

tal control for the lad's trouble. No privacy in the home. Family relationships. The father is a transport driver. He works on shifts. He is not very often at home. The mother is very incoherent and suffers from delusions. She says the neighbours "somehow know" everything she is thinking. The parents exercise very little control over the lad. He was not evacuated during the blitz. The single brother living at home (age 28 years) was recently convicted of indecent assault on young girls in cinemas. The relationships between lad and the rest of the family are said to be good. He does not get on well with his sister-in-law and the children, and so goes out most of the time. School report: The mother has no control over the boy. No interest was taken in the boy at home. He was left to his own devices. Discharged from Borstal in June 1948 and went into the Army. He was a cook very near his home and visited home very often. In June 1949 he had a regular girl friend in his home town. In August 1949 the police visited his home about certain thefts in his home town. The girl friend learned of his past record and threw him over. In November 1949 his father died and he dropped the idea of signing on in the regular Army. He was demobbed in March 1950 and returned to his home. The Associate said he had been very helpful to his mother since his father died.

Religion. Church of England. Education. Elementary School until 14 years. Low intelligence. Concentra-

tion very poor. Needed strict supervision. Trushted on occasions. Social activities. Cycling, camping out, fishing. Stamp collecting-about all of which he was very enthusiastic. He kept late hours. On each occasion of arrest, he was in the company of the same young man (a slightly younger youth). The police suspected him of other "johs". He was at no time attached to a Youth Club. After his demobilisation the Associate pointed out that he was not a member

of any club and that he went to the cinema too often. Type of work. He worked for a glazier for 3 years since he left school and had

only that one job. He was receiving a wage of £3. 5. 0. per week. In Borstal he worked for the last 6 months in the kitchen. On demohilisation he returned to the glazier's employment in his home town. Work habits. He received an excellent character from the firm of glaziers. The firm was ready to re-employ him upon his discharge from Borstal, and stated "he has proved himself a first-class hand and an industrious worker". The employer asked for him to he bound over and would he prepared to help him in that case. The

lad said his boss trusted him in anyone's home. Failure score: 12 (probation 4, highly industrial area 8).

Comment: His excellent work record and good family relationship were assets which helped him to overcome the handicap of a poor and overcrowded home.

VIII.20 Case No. 10. Born: April 1929.

Previous consictions:

In a dwelling house for unlawful 1 day's imprisonment. purpose.

10.46. Shopbreaking and larceny. 3 years' Borstal Detention. Information about the second offence (which had occurred before the first) was obtained during the investigation of the first charge.

Subsequent convictions: 12.48. Suspected person.

2.4.8. Suspected person.

5.50. In Army in Germany. Charged 6 months' detention.

with taking a German girl into the

barracks.
6.51. Possessing lead piping unlawfully 6 weeks' imprisonment.

obtained, 8.52. Larceny in dwelling house. Adj. unknown.

Physique and appearance. A very marked convergent squint; otherwise hand-

some features. Height 5 ft. 3½ ins. Weight 136 lbs.

Health. Normal. Strong and tough.

1.0. Col. 78%.

Borstal kistory. Allocated to an "open" Borstal Institution for immature lads, When first in the Institution he tried to be the "fly boy". The Borstal Associate always remarked on his smart appearance.

In September 1984 he was discharged from Boestal and went fortherth Inole Army and within a month he had twice absented himself. Thereafter he quietiend down for a few weeks but appeared in — Magistrate' Court in quietiend down for a few weeks hut appeared present. He was, however, discharged and within a veeks' men appeared present in the country and he military service. In early July 1989 he was on leave in this country and he called upon the Associate, who was very impressed by the lad's smartness. Nothing frather was heard about the boy until the middle of November 1986, when Associates who was very impressed by the lad's smartness. Nothing frather was heard about the boy until the middle of November 1986, when and the same properties of the country of the

and an unfurnished room so that they could be together when he had completed his period of service.

In May 1950 he was charged with taking a German girl into the barracks and was

sentenced to 6 months' imprisonment.

In the middle of October he again arrived in this country on leave and reported—
In the middle of October he again arrived in this country on leave and reported—
In the middle of October he again arrived in the country of t

Home conditions. Born and lived in S.W. London until 17 years (reasuable for some time to Surrey). Then at 17 years he and his mother moved to Paddington. Conflicting reports and omissions make it very difficult to trace the result of the surrey. The surrey is the surrey that the state builty that is father "is done" if derevere one learns that "in the surrey was considered by the surrey was successful or the surrey was successful or the surrey was successful on the surrey was successful or the surrey was surrey. The surrey was surrey.

appears to have acquired the hahit of living in furnished rooms.

Borstal Associate states that the mother works as a waitress and has nothing to

do with the father.

November 1949. Mother said she was hoping to get an unfurnished room so that she could be with her son.

Family relationships. In Borstal he sent letters to his mother and a young lady

Family relationships. In Borstal he sent letters to his mother and a young lady who is said to have "stuck by him". Mother was not helpful—as far as visiting was concerned—when he was in Borstal; he had visits from his girl friend masquerading as his sister. The recording officer states "mother needs training as well as the lad".

Religion, Church of England, Education, Elementary School,

Social activities. Not interested in games or sports. Had a girl friend before he entered Borstal. Mother said he used to belong to a Youth Club and then they moved and he went to the pictures and dance halls occasionally. Before he had a girl friend he used to accompany his mother on various social visits.

Police: He associated with undesirable characters. He has been sleeping in shelters and keeping very late hours. He is suspected of other shopbreaking and

housebreaking in the Paddington and Harrow Road districts.

Type of work:

Artil 1042-March 1044. Fister appropriate Palls Bourse 104

April 1942-March 1944. Fitter apprentice, Rolls-Royce. 10/- per week. 6 months' work for timber firm in Dorking.

6 months' work for timber firm in Dorkir 1 year's work for timber firm in London.

6 months' work for timber firm in Harrow Road.

Plumber's mate for a period.

Work habits. Police could trace no particulars concerning any of the timber firms for whom he said he worked. He could not remember the name of the first plumbing concern for whom he worked. The second plumbing fram had no record

of his employment. In the Army he took a specialist's course in driving.

Failure score: 10-6 (highly industrial area 8, longest toh 1 year, 2-6).

Failure score: 10-6 (highly industrial area 8, longest joh 1 year, 2-6).
Comment: An "under-achiever". Apart from his intelligence, there seem to be only bed points in his history: broken home, heyond control of his

mother, bad district, had associates and had work record.

CLASS C (S CASES)

VIII.21 Case No. 11. Born: March 1929.

Previous Convictions: 5.44. Larceny (2 cases).

5.44. Larceny (2 cases). Bound over on Probation.
1.45. Larceny. Approved School.
11.46 | Absonding from Home Office 2 years' Borstal Detention.

11.46 | Absonding from Home Office 2 years' Borstal 12.46 | Approved School.

(He resorted to housebreaking and handbag snatching.)

Physique and appearance. A Jewish youth with good features and expression. Height 5 ft. 9½ ins. Weight 147 lbs. A large, well-made lad. He has an impediment in his speech which is worse when he is excited or flustered. The lad says his stammer is due to an "accident" at age of 10 years.

Health. Good. He is strong and well built with no physical defects.

I.Q. Col. 72%. Average intelligence.

Personality. Home Office Approved School report. Erratic behaviour, guzzeilly main and citribil but unco-operative. Police report: He has a strong personality and leads others into trouble. Probation report: In general he was a difficult is do deal with. Home Office Approved School report: Not a good mixer. ". he developed a grudge against the School and the Staff could not gash his co-operation." He had good person of progress for months at a time and then he would abscood.

Had an unsettling influence on other boys and would lead them away.

Borstal History: Allocated to an "open" Borstal Institution for mature lads which
is used especially for absconders. Borstal medical report: Not a good mixer.

Has a strong personality. Governor's remarks on reception: Stammers. Seems
to have no aims or "guts". Slack. Solitary nature. Exceeded to be unreliable

during early stages at Borstal.

May, 1947. Visited by brother in Navy. June, 1947. Settling down well. Has strength of character. A good house influence. Corresponds well.

Party and house reports consistently good. Is not a good leader but sound. Looks after himself but not keen or interested in other people's doings.

August. Seems nervous. Due to impediment in speech? Visited by uncle and December, 1947. Has not slipped at all. House captain. Has won respect if

not popularity of rest of lads. Discharged 29.1.48.—to Army.

friends.

Governor's discharge report: Co-operative and pleasant. Not a good mixer. Has sense of humour. A frank lad. Home conditions. Police report: The lad's uncle and aunt (with whom he lives)

are respectable middle-class Hebrew people. Home Office Approved School report: A good working-class home.

Pamily relationships: His father, mother and a sister died of tuberculosis. His mother died in 1931 when the boy was 2 years old and his father died in 1933. Following the mother's death, the father remarried and the stepmother died in 1934. He lives with his uncle and aunt, who are his guardians.

Police report: He is on fairly good terms with his guardians. He is also on good terms with his cousins.

Probation report: He was not contented with his home life. His uncle was often unable to control him and complained about the lad's conduct. On the other hand he often complained about his treatment at home and his having to do so many household duties. Attempts were made in 1944-5 to get him away for farm training

but he got into further trouble and was sent to an Approved School. In the Borstal Institution he kept up a good correspondence with his relations and

one or two female acquaintances. When on licence and in the Army, he was stationed in B- in June 1948 and the family was going to B--- for a holiday and hoped to see him.

It appears that in August he got into a spot of trouble during home leave. A diamond ring was missing at home and he was accused of taking it. Apparently there was not a scrap of evidence to support the statement. He was keen for the By October 1948 he was serving overseas in Malaya and in January 1949 he wrote

trouble to blow over but he wanted his name cleared.

to the Associate to say his girl friend was going to have a child and his C.O. was trying to arrange for him to return to this country to marry the girl. The consent of his uncle was needed for this ceremony. In March the Associate learned the guardian would not consent to the marriage and the lad was in a very miserable state of mind. He wrote "a horrible letter" to the uncle and the Associate was of the opinion that this would finish the lad's relationships with the guardians.

In August nothing had been heard from the lad and the Army authorities were contacted and reported he was serving satisfactorily. He was demobbed in December 1948 and his licence expired. Religion. Presbytcrian-although his parents were orthodox Jews and he was

a member of the Synagogue. He has never mentioned this and has expressed no desire to attend the Synagogue.

Social activities. Probation report: He has no hobbies or interests other than cinemas. Home Office Approved School report: He took an interest in the Sea Cadets. He had little aptitude for games. Not a good mixer. Borstal medical report: He is keen on running and swimming but not ball games. Home Office Approved School: Average intelligence. Progress and attainment below average ability. Good progress in Builder's Dept.

Tune of work: 1948 (6 months), office boy. 12/6 per week. Did not like it. 1943 (3 months), labourer. Dismissed for fighting.

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1943-4 (few months), office boy. 15/6 per week. Sacked-slackness. Short time, butcher's errand boy. 14/- per week. Sacked. Absenteeism. Catcher for 10 months in 1944. 25/6 per week up to conviction.

In Borstal Institution he said be was keen to join the Merchant Navy. Did labouring, painting and kitchen work in Borstal Institution.

Work habits. Duration of jobs and reasons for leaving as above. Borstal Institution work records: Able and adaptable. A reliable worker.

Failure score: 30·1 (probation 4, Approved School 8, not living with parents 7·5, longest job 2-6, highly industrial area 8).

Comment: This is an "over-achiever". He suffered from various handicaps: his parents died when he was a child, he stammers and is a bad mixer and absconder. On the other band, he had a good home and was on good terms with his guardians, and be is intelligent.

#### VIII.22 Case No. 12. Born: October 1929. Previous convictions:

5.38. Shopbreaking and larceny. B.O.O.R. Probation. Bound over to continue. 11.38. Larceny. To care of L.C.C. 8.39. Larceny.

5.45. Larceny (2 cases). Home Office Approved School. Home Office Approved School. 7.48. Officebreaking and larceny. 9.46. Absconding from Home Office Ap-2 years' Borstal Detention.

proved School

Subsequent convictions: 1.49. Absentee from Army.

Returned to Army. 28 days' detention.

Physique and appearance. Normal features with a somewhat defiant expression. Height 5 ft. 8 ins. Weight 132 lbs. Health. Normal. (Peritonitis whilst in Borstal, operation for hernia whilst in

Army.) I.Q. Col. 82%

Personality. Police report: A cunning thief and an inveterate liar. At Wormwood Scruhs: He complained of heing underpaid.

Borstal history: Allocated to a "closed" Borstal Institution which at that time received mature and immature lads. Unsociable and aggressive. Refused labour. Very reserved and uncommunicative hut improving. Fundamentally very sound and decent. Very temperamental and easily led. Absconded from Home Office Approved School five times. There is much good in him. He is sullen but more friendly as one gets to know him. He is fundamentally very decent and has a genuine sense of justice and fair play. He has never compromised with what be believed to be wrong. His bouts of depression and bad temper bave become increasingly less frequent. He has a far saner and balanced outlook on life than the average lad dismissed from here. Has the ability to do very well. Housemaster's discharge opinion: A curious lad, moody and inclined to bad temper and rather unsociable. His babitual expression of face is sullen and disagreeable and bis manner rather bitter and disillusioned. A loyal and just leader.

Discharged 10.3.49.

Home conditions. His mother died in 1939. (Cancer.) His father died in 1945. When 14 years old he was hoarded out with foster parents (correspondence shows them to be reasonable and understanding people). The father was a rag and hone merchant. The boy's home had left much to be desired. In September 1989 he was evacuated with school. He was found too unruly for an ordinary billet and was placed in a hostel for difficult children. He is the fifth of 7 children. One brother has been in prison and one brother has been in an Approved School.

Family relationships. The father was a very heavy drinker and cared little for his children. When he was at the Approved School he spent his leave with his married sister. She said she gave him every assistance but her kindness got nowhere. Now she will have nothing to do with him. His foster parents wrote to him in Borstal and wanted to send the lad a parcel. Mrs. ---- said he had always been a good hov with her. On licence: He went straight into Army. He kept in touch with his foster mother. He wrote on one or two occasions saying he would be home on leave but on each occasion he failed to turn up. In March 1949 he went overseas and had not been heard of since (went abroad on Army service). Religion. Church of England.

Education. Left school at 14 years. In top class. Character at school-good. Social activities. An associate of young thieves. (Police Report.) Type of work. Early 1944, shop boy for 3 months. Next 3 months, messenger

at railway goods yard. (He was doing this job under the supervision of his foster father.) Was discharged when wanted by the police. He wants to be a clerk. Work habits. He left his first job with a good character. He was also given a good character by the railway authorities. He was said to be sober and industrious.

Failure score: 34 (probation 4, Approved School 8, not living with parents 7-5, longest job 3 months 6.5, highly industrial area 8). Comment: He had many disadvantages: a broken home, a bad temper, delinquent

brothers, very early Court appearances. When evacuated as a boy of 10 he was found to be too difficult for ordinary billets. On the other hand, he is intelligent, has reasonable foster parents and is a good worker.

#### VIII.23 Case No. 13. Born: April 1930. Previous convictions:

## 9.44. Larceny.

P.O.A. and costs. 12.44. Househreaking. 2 cases larceny.

P.O. 6.45. Larceny (8 cases). Housebreaking Bound over 2 years. P.O.A.

(10 cases). 10.45. Housebreaking and larceny (6 other Home Office Approved School. cases taken into consideration).

10.46. Housebreaking (3 cases). Larceny (2 cases). Returned to Approved School. (Absconded four times from Home Office Approved School.)

1.47. Escaping from Home Office Approved 2 years' Borstal Detention. School.

### Subsequent convictions:

10.49. Broke into gas meter (mother's).

Recalled-Portsmouth. 6.50. Larceny in dwelling house. 6 and 6 months' imprisonment. Larceny of gas meter. 3.51. Wanted by police as suspected

person-larceny.

5.51. On enclosed premises. 3 months. 6.51. (Re larceny (wanted) he was remitted to Quarter Sessions for

sentence. He appealed against this. Was successful.) 3.52. Larceny. Discharged-no prima facie case.

Physique and appearance. Strong features. Contemptuous expression. Height 5 ft. 7 ins. Weight 140 lbs. Deformed right arm (badly set fracture when 3 years old). Medical Officer's discharge report: Re deformity-only a limited degree of fitness. Cannot lift anything with right arm. Average physique-not very sturdy. Health. Operated on whilst in Borstal for appendicitis. Otherwise normal.

I.Q. Col. 57% Personality. Elementary School report: A rather solitary type at school. He

always used his arm as an excuse. Many petty thievings were traced to him at school. When boys tried to be friendly with him, it lasted only a few days. He was rather low and cunning. Not particularly popular.

Police report: No associates. Was always alone when committing crimes. In Home Office Approved School he went through the pockets of the football

team whilst they were changing their clothes.

When before the Court in 1948, having absconded from the Home Office Approved School, he complained about the nautical training he was receiving. He said the injury to his arm stopped him benefiting from this training and he could never go into the Navy. (He was, however, returned to the same school.)

Probation report: A decent kid but very easily led. Home Office Approved School report: Untrustworthy-needed constant watch-

ing. Borstal History: Allocated to a "closed" Borstal Institution which at that time

received mature and immature lads. January 1947. Weak. Keeps bad company. April 1947. Is responding quite well to discipline. He has applied for a change

of house. No order advised. His cricket ability gives him some popularity. He is

unfriendly. October 1947. Left party without authority. A fundamentally decent youngster who has struggled hard against the temptations of institution life.

Rebruary 1948. Putting no positive efforts into his training.

April 1948. His instability increuses. Has a persecution mania.

May 1948. Failed to return from home leave. Gave himself up on the 28th. Says he missed train and was afraid to return.

July 1948. "Can I have my arm seen to?" August-sent to hospital, no treatment recommended.

August 1948. "Can I have a book on fractures?" Sentember 1948. Refused lahour.

October 1948. We have "shot our bolt" with him. Little hope for the future. November 1948. Refused lahour. Can he go in painters' party? Yes, in due

course. Discharged January 1949.

Housemaster's discharge opinion: At the end of his sentence he is now showing a slight loss of mistrust of authority. Below average intelligence. A sly hird and has a sharp appearance. Did his 2 years at Borstal and still grins. My impression is that he will be in further trouble. He is very institutionalised—outside life holds little attraction. He is careful here but would be familiar, then insolent and would take mean advantage over anyone. Warped, lazy and unreliable. There is a restriction of the arm but he likes playing on it. A further 3 years are surely his. Governor's opinion: An unsatisfactory 2-year course. On licence he returned home to his mother and contacted the Borstal Association. In April he disappeared

and he was next heard of when he broke into his mother's gas meter and was recalled subsequently for further training. November 1949. About his last offence he says: "I just wanted the money." He says neither the Approved School nor Borstal have touched him. The future is

dim. January 1950. Failed to carry out orders. Refused to carry out orders.

Irregular conduct. Obscene language. February 1950. Requested a private interview with the Governor. Granted. It was about his arm. He refuses to accept the report of the specialist that there is no point in attempting to re-set the arm. He is stubborn, selfish, foul-mouthed,

unreliable and yet beneath it all he knows what is right and wrong.

No impression has been made on the lad. His future is very dark. Second discharge Portsmouth, March 1950.

Kept away from Associate.

In July—prison and discharged in March 1951 (had lost his remission). March

1951. Associate says he is bitter towards all. Is developing a persecution complex. He is now entitled to a sum of money (2150) on reaching 21 years. April. Has disappeared. Returns home on odd occasions. Associate can never set an answer. Notes are ignored.

get an answer. Notes are ignored.

July. Since being discharged from prison at end June, has made no attempt to
get in touch with Associate. Untraceable.

get in touch with Associate. Untraceable.

August. Still impossible to make contact with either the lad or his mother. At
the end of the month he was seen in S—— and he said he had received no messages.
He is very bitter. Does not want friendship from anybody.

September. He is anti-social, bitter and has no sense of moral values.

Home conditions. Probation report: Home circumstances are fairly good. The

house is on a new estate in the country and is composed mostly of migrants from M—— and S—— have not been well received or spoken of by the local residents. He started his criminal career with a number of other lads from the same estate. The home is clean and tidy.

Family relationships. The father was killed in the B—— football accident in 1946. The father blad been in the Army from 1941 to 1945. The mother has a weak heart and cannot work. He has two brothers and one sister. The brothers (10 and 14 years) are living at home. The sister, aged 18, is on probation and is away in service.

The mother has no control. It is a fairly good home materially, but not a happy one. The mother is a rather weak woman and the family is evidently beyond her control. The sister gives a lot of trouble.

control. The sister gives a lot of trouble.

The lad is not strongly attached to bis home. He speaks well of his father and

evidently misses his control.

His mother visited him regularly in Borstal.

There was a good deal of domestic trouble in the bome prior to 1940. The mother said since leaving school the boy has been resitiess. He became difficult at home and was casily led by other boys. She is willing to give him a good home. One other son also gives the mother a lot of trouble.

The mother had three operations in 1860 and lost the use of an arm. The Probation Officer was of the opinion that the lad's position was largely due to domestic trouble prior to 1940 and the difficult adolescent period when the father was in the Army. Borstal record: The mother completely failed to control the lad from the beginning. She has so thoroughly spoiled into that it is difficult to get any real

belp from the lad in his training in self-discipline.

Told Associate he wanted to go into lodgings and not to return home.

Religion. Church of England.

Efinization. Elementary School report: Resched top standard at school. Fairly quick at mental arithmetic. He entered examinally well late school life. He played transt to go to golf courses where he could oxidy (on three occasions he was wared off the golf course because of perty thefu.). Probation Officer: Having wared of the golf course because of perty thefu.). Probation officer: Having wared of the golf course because of perty thefu. Probation officer: Having wared of the golf course because of perty thefu. Probation of the result was a standard or school was a schoo

would not settle down to school life.

Social activities. At school: Solitary type. Keen on cricket. Mother: He liked sport—fishing and caddying. Borstal record: Is keen on football. (Letter

from Governor to mother: "Every time he plays football be puts his arm out and we have had to stop him playing.") Has a marked ability at cricket. Portsmouth record: He gambles a great deal on horses. Probation record: He is not a good mixer. He was in the Boys' Brigade for a PREDICTION METHODS IN BORSTAL TRAINING

short time. He later began to frequent billiard balls. He started his criminal career with a number of other lads from the estate. Tune of work. He wanted to so into the Navy but could not because of his arm.

First job. Apprentice sheet metal worker-5 months.

Painter and decorator-3 months. In a drawing office-a short time.

Painting and decorating-2 weeks.

In Home Office Approved School: Baking and kitchen work. Borstal: Painting and decorating,

Licence: A washer in a textile mill. Caddying (in different parts of the country).

Work habits. Was dismissed from his apprenticeship because of absentceism. Left next job of his own accord. Left the next painting and decorating job of his own accord. His mother thought he was still at work. At the Approved School be did fairly well but did not stick to his work. In Borstal be was considered to be a good tradesman. The Probation Officer was of the opinion he should be trained for clerical work or some light handicraft. The lad wanted to learn kitchen work so that he could get into the Army Catering Corps.

Failure score: 25-2 (probation 4, Approved School 8, highly industrial area 8, longest job 5 months, 5-2),

Comment: His bad points are his history of persistent crime, his absconding, his physical handicap and "persecution mania".

#### CLASS D (I CASE) VIII.24 Case 14. Born: April 1927.

Previous convictions: 5.36. Larceny.

198

Bound over 12 months' probation. Fined £1. 17/6 compensation.

4.45. Larceny. 7.47. Shophreaking and Larceny. (3 other cases.)

3 years and 3 years concurrent in Borstal Institution.

Subsequent convictions:

4.49. Wilful damage. 5.49. Drunk and disorderly. 5.50. N.A.A.F.I. breaking.

£5 fine. 10/- costs. £2 fine. 3 years' corrective training.

Physique and appearance. A sullen and defiant expression. Well proportioned Height 5 ft, 31 ins. Weight 122 lhs. A had soar on forehead.

Health. Generally fit but not for extremely heavy work. His bearing is affected by chronic otitis in left ear. Suffers from psoriasis on arms and legs. Was involved in an accident in a pit in 1943 when both his arms and both his less were fractured

and be sustained head injuries. I.Q. Col. 59%. Allocation Survey: Rather dull and backward mentally.

Personality. Probation report: July 1947. Probation Officer remarks on his drinking and gamhling. His probation period was satisfactory, Governor's remarks on reception: Living on compensation and dole (£2 per week). In urgent need of discipline. Would not get a job because he would lose his £1 compensation. This lad likes the easy way.

Borstal kislory: Allocated to an "open" Borstal Institution for mature lads. A cheerful little comedian who could be quite a handful if he were not on our side. Working well and appears to have settled down. November 1947. He had a bad spell for a few days but is now back to normal and working well. A cheerful and pleasant lad. April 1948. Applied to be a leader. Not able yet. Granted home leave

Discharged August 1948 to mines. A sound youngster although rough and ready. Discharge reports. Governor's opinion: A cheery soul with a sense of humour.

He should do well. Housemaster's opinion: Cheery and with a quick wit. A hit lazy. A good

mixer but no leader. He is friendly and co-operative and has a lot of common sense

Home conditions. His mother died when the lad was 15 years old. He left home and went into lodgings.

Extract from letter sent by his elder brother to the Governor of Borstal Institution: " . . . my father sold all the home off and gave up the house and left him without a roof over his head or a bed to lie on and he has just been knocked about."

Family relationships. Housemaster's report: He does not get on with his stepmother, who lives with his father. He wants to live with his sister-in-law, who will have him (they get on well together).

Further extract from letter sent by brother to Governor: "I have not been able to help the lad because my home was hombed to the ground and I have had to live with my wife's mother. I hope to have a house of my own by the time he comes out so that me and my wife can look after him. I have four children of my own and he knows my wife will do all in her power for him."

The sister-in-law wrote saying: "I am going to try and do my very hest to keep

him on the right nath." (The goods stolen by him, and for which offence he was committed to Borstal,

were received by a brother aged 34 years and who was accordingly charged with that offence. No reference is made elsewhere to any other siblings but a brother.) Probation report: July 1947. The father has separated from his second wife. (He has "retired" and his address is unknown.) He does not take any interest in the lad. The boy's mother died 5 years ago. He lived with his father for some time but they did not get on well together. He has since been staving with relations for

short periods. Religion. Church of England. Education. Left school at 14 years. Housemaster's report: Educational stan-

dard not very high. Social activities. Police report: He associates with persons of fair character. Probation report: July 47. He associated with youths of undesirable character, He frequented hilliard saloons, fond of drinking and gambling.

In May 1949 he was fined for wilfully damaging a fence. This came about because he was spending his spare time with a girl friend and they came to have a disagreement. He went drinking and later damaged the fence of her parents'

house. He was warned to keep away from the address and he promised to abide by this instruction. Three weeks later be was again arrested at his late girl-friend's house. He again promised to stay away. Four days later he was fined for being drunk and dis-

orderly. June 1949. Enlisted in Army.

April 1950. Magistrate's Court. N.A.A.F.I. breaking-remanded.

May 1950. Assizes. 3 years' corrective training.

Type of work. Was a pony driver in the mines until his accident when he was 16 years old. This was the only job be had. He has not worked since 1948. He was given a light job when he recovered from his accident hut he could not manage it. Allocation Survey: He is fond of working with horses.

In Borstal Institution he was put on light labouring jobs. He also did hospital orderly work and obtained a St. John Amhulance Certificate.

His housemaster reported that he wanted to so back into the mines upon his release and to work underground if possible. In July 1948 the Ministry of Labour and National Service informed the Borstal

authorities that he had been accepted for coal-mining at H---. On discharge from Borstal he returned to the mines and left when he enlisted in June 1949.

missed a shift during first month. Made good progress up to joining Army. Failure score; 44-5 (probation 4, fined 9, not living with parents 7-5, evidence of drink 24). Comment: The statistical prognosis is borne out by events, against the Governor's

favourable opinion.

### CLASS X (2 CASES)

#### VIII.25 Case No. 15. Born: March 1928. Convictions:

1.40. Larceny (2 cases).

10.41. Shopbreaking and larceny.

10.42. Stealing. 3.43. Stealing (2 cases).

9,44. Stealing.

6.46. Shopbreaking and larceny.

9.45. Stealing (8 cases). 11.45. Stealing. (Once summarily for obstructing police.)

1.1.41 then dis. P.O.A. Probation 1 year. Bound over 1 year. J.R. 1.9.43, then dis. P.O.A. Fined.

Fined each case. 6 months' imprisonment.

3 years' Borstal Detention.

Bound over 1 year J.R. to

Physique and appearance. An unhealthy, lethargic, expressionless face. Height 5 ft. 9 ins. Weight 164 lbs. Tattoed on forearms. Health, Good.

I.Q. Col. 57%. Personality. Police report: He is of lazy disposition. Probation report: I

found him untruthful, lazy, insolent. He was brought back to the Court for failing to pay a fine of \$8 for stealing lead. He has a particularly bad record for a lad of 18 years. He requires long-term training. Leeds Prison Reception report: Absentee from Army. (He was called up in April 1946, served 8 days in the Army and deserted. Has been on the run.)

Poorish I think.

Chaplain: A rather unsettled nature, lacks concentration, in need of prolonged training to stabilise him. Wakefield Prison Reception report: Shows a co-operative side and has some good

stuff in him. Borstal Reception report: He is of lazy habits and fond of dodging work.

Badly in need of disciplinary training. Wormwood Scrubs, June 1946: Shouting through cell window. 2 days No. 1 diet. August 1946. Has steadily improved in every way. Co-operative reliable

worker. Made leading lad in his mess. Trustworthy-Borstal history: Allocated to a "closed" Borstal Institution for mature lads.

October 1946. Work and conduct good. November 1946. Has worked well. He is weak but he learns. December 1946. Work poor. He is very moody.

January 1947. Work and conduct very good.

February 1947. Special grade. Shows interest in his work and on the whole his conduct is good.

March 1947. Conduct good-works well. April 1947. Conduct good-works well. Coming along nicely.

May, 1947. Conduct good-works well. June 1947. Conduct good-works well. A very useful lad. July, 1947. Conduct good-works well.

August 1947. His conduct at times is an example to the other lads. September 1947. Fundamentally weak—atthough decent enough in himself. Discharged October 1947. (To Army.)

Discaraged October 1947. (To Army.)

(Borstal Associate writes: He may not wish to receive letters from Borstal Association so will not write unless I hear from him.)

Home conditions. Police report: Clean and tidy.

Family relationships. Wakefield Prison record: His mother is dead (she died from cancer in 1943) and he lives with his father on very poor terms. His father

describes him as lazy and drifting fast (from petty their to shopkensking).

Borstal scoroit: He lost his mother about 3 years ago. His father is respectable
and has turned thaind out of the house on a number of occasions after having failed
to persuade him to conduct himself in a better manner. Housemaster's report,
June 1947: Has a married sister living at home. They seem a very happy family.

Police report, June 1949: He is not on good terms with his father, brother or sister.

with whom he resides, due to bis lazy habits and the fact that he is nearly always in trouble for thieving.

Probation report: The father is respectable and hard working. He has made an effort to help his son. The father has on more than one occasion turned the son out

and is not really willing to have him back.

Elementary School reports The mother is deceased and a sister states that the their winds to have nothing further to do with him. The lath's sister would be willing to help him when he is released. He corresponded with father, sister and anke and female friend. On 84.1047 the fifther work to the Borrist Associate to he had been associated by the sister of the sister of the sister of the sister of the would do his best. The father went on to say that he misses that the sister of missence on the boy but that she had died during the way.

Religion. Church of England.

Education. Left school at 14 years. Elementary School report: Left in Standard VII. Was below average in ability but canable of good work when he applied

himself to it; otherwise, he was extremely lazy.

Social activities. Police report, November 1945: Has been associating with

thieves and persons of doubtful character for the past 5 years.

Police report, June 1946: He associates with thieves and prefers to hang around

street corners rather than obtain and continue with regular employment.

Probation report, June 1946: Is not interested in any form of youth activity.

Spends his time in billiard halls and cinemas and public houses. Associates with

others well known to the police.

Wakefield Prison Reception report: A lazy insolent street-corner boy. Borstal
Governor's comment, September 1946: Fond of attending billiard halls and drinking.

Tune of work.

Police report, June 1946:

Lorry driver—3 months.

Worked for timber merchants—6 weeks.

Worked for dairy farmers—2 months.

Worked in manure works—8 months. Horse driver for carters for 2 years (left own accord).

Horse driver for carters for 1 year. Arrested. Joined Army 18.4.46. Deserted 2.5.46.

Probation report, June 1946: He had long periods of unemployment.

Work habits. Police report, June 1946: He was described by his employers as a good worker when at work but took several days off without any apparent reason. Police report, November 1945. His employers have described him as lazy and

PREDICTION METHODS IN BORSTAL TRAINING very unsatisfactory. Sometimes he has turned up at work at 10 a.m. when he

Faffure score: 21 (probation 4, fined 9, highly industrial area 8). Comment: In spite of his handicaps, a history of early delinquency, a broken

home, laziness and casual work habits, he has not relapsed.

VIII.26 Case 16. Born: March 1930. Previous convictions:

9.39. Store hreaking (2 cases).

900

Shopbreaking (2 cases). Larceny of bicycle.

should have been there at 7.30 a.m.

1.45. Burglary.

consideration).

10.46. Househreaking and Larceny,

Physique and appearance. Well proportioned features and weak expression. Convergent squint. Vision right eye practically nil (had operation for this and a

his years.

needs watching. Physical stamina not too good.

I.Q. Col. 75%.

intelligent.

Police report: His character is bad.

easily have had a worse record.

still appears sometimes but he can now accept reason.

dark glasses. September 1947: He is conscientious, thorough and reliable in his work but has

not yet learned to live with other people. He has a great deal of ability and enthusiasm hut spoils it hy a lack of moderation and humility.

Sent to Waifs and Strays Home.

Bound over £5. 12 months. 12.45. Emhezzlement (1 case taken into Bound over £5. 12 months'

Probation.

3 years' Borstal Detention.

persistent headache was relieved). Height 6 ft. 0 ins. Weight 174 lbs. Blg for

Health. Normal. Should not be exposed to inclement weather. Chest trouble

Medical report (Borstal): Slow and dull. Housemaster (Borstal): He is fairly

Personality. Waifs and Strays Home: Absconded once because the hoys called

him names. A sneering cynic. Untruthful, looked on police with scorn. Prison Chaplain: He is a weak and bad character and easily led astray. Requires discipline. Prohation report: There is a tremendous lot of good in the lad. He has probably

committed his offences to bring his position to the attention of others. This attitude is brought out hy his surrendering to the police in L--- for offences committed in P---. Allocation Survey: Needs a fresh hreak and a lot of help. He seems a pretty decent chap. In-the Home for Waifs and Strays his conduct was good hut he was inclined to he untruthful. A lad who has had little to help him keep straight, except when in the Waifs and Strays Home. He had no help from his mother and had a brother who led him astray. Quite a nice lad and might

Borstal history: Allocated to an "open" Borstal Institution for immature lads. November 1946. Very sorry for himself. Has had poor home conditions. Little strength of character yet. Friendly and well meaning. Will respond to kindness. Not a leader. March 1947: Puts up a screen of independence which amounts to a deep-rooted

suspicion of others. He is fairly intelligent. His arrogant alcofness amounts to a lack of self-confidence. May 1947. He has gained steadily in strength and wisdom and is more co-operative. He is interested in his work and is reliable and responsible. Is the leader in the kitchen. He has found the security he so much needs. His childish obstinacy

July 1947: Re his eye operation-his attitude towards waiting for weeks in a cell at W---- was very encouraging. He is happy to be hack but rather subdued in his

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November 1947. He has made a great effort and shown that he can combine tolerance with ability and has recognized a sense of duty to others as well as himself. Improvement has been even greater lately since he returned from a home visitist or 'Blighty'. He has responded well to becoming a issaler. Showing himself to be thoughtful, enthusiastic, level-headed and capable. Is more open.

Montanged and allesing copinion, December 1997: Has a good sense of humoura, inindividual proposal and a find disposition at bottom. Not a strong character. The independence he tried to force on himself aboved itself as an arrangent deliberate and continuous control of the control of the

independence carries with it belief in other people.

Governor's discharge opinion: He finds it hard to fit in with and tolerate others. He is old for his years and quite astisfied to spend hours on his own in the kitchen.

Home conditions: Mother living and working in a common ledging house (in the poor harbour and market area of the town). She carns very little money.

Borstal medical report. There is no doubt that the home environment is externely adverse in this case since the mother works and lives at a lodging house and

there are no real home facilities.

Allocation Survey: A shocking background. The lad has practically no home.

For a time he lived in the lodging house with his mother when he was expected to

wait up at night to let the men in. There was also some trouble with the owner of the house. Prohation Officer: Mother occupies two rooms in a lodging house. Character of

home and relationships—poor. Swrege. No help from his mother and has a brother who led him astroy. The did they display and the state of the home the state of th

C— Hotel was tried but he related to settle down and was surt home after the vedeo.

Bottle proper after a new unhappy 6 years, of hume life he was sent Bottle for the proper after the proper a

the Army. Borstal medical report: It is understood there is a separation order

operating between the stepfather and the mother.

Governor (Borstal): "My sister's magisterial duties in the same town have

caused her to be in touch with this family for years. The home has little to commend it and he should not return there. He has heen a difficult lad temperamentally and there is no doubt that this is due to his unfortunate home hackground."

In July he and his wife were working in the same hospital and seemed very happy. He also seemed to get on better with his own mother.

In November his wife was expecting a baby. One year later, in November 1950,

there was domestic trouble because he became involved with another woman and wanted his wife to enter into a deed of separation. His wife is still fond of him and has no wish for him to leave. (Wife had a son in February 1880.)

Religion. Church of England. He has been confirmed but has been irregular in his churchgoing since.

Education. He did well at the Senior School. He made good progress and maintained a good position. In the Wait's and Strays Home he reached the top form and made good progress. Social activities. Police report: The characters of his friends are had.

Prohation Officer: He has always refused to join a Youth Club. It is curious

that on two occasions he has gone to L—— (on the second time ostensibly to get work in the dooks) and given himself up to the police. Remand Home: His associates are described as bad. Borstal medical report: The crime for which he was sent to Borstal was carried

out with two others at a time when he was unemployed and on probation.

Housemaster's opinion: He wants to do pastry cooking and learn French at

evening school.

Type of work. Allocation Survey: The types of work he has tried—

Farm work (after training in a hostel)—left because too cold.

Coal delivery.

204

Kitchen hoy in hotels. Saw-hench work.

Labouring of various types.

Errand hoy on different occasions. Following release from Borstal:

February 1948. Lahourer (for one week), then house porter in hotel.

March 1948. Lahourer (few days). April 1948. Assistant cook in hotel.

July 1948. A cook in a hospital. Left February 1949.

May 1949. Back in hotel work. August 1949. Employed as a kitchen porter.

November 1949. Now employed as a storekeeper in the same place. February 1950. A salesman on a mobile fish van.

September 1950. Worked for a dairy from 6 a.m. to 1 p.m. and on the mobile fish van from 5 p.m. to 11 p.m.

fish van from 5 p.m. to 11 p.m.

Work habits. In the Waifs and Strays Home it was said he did a good and workmanlike job. He left his farm work hecause it was too cold. He left coal delivery

because his mother's employer disliked him coming home dirty. He left one job as a kitchen boy because the chef left, and another because he could not "live in" and he was a long way from home. He was dismissed from the saw-bench job because of

Inginess. Police report: In 24 years be had 30 jobs and in most cases left of his own accord before his character could be assessed. He was frequently absent from the sawbench job. The butcher who employed him as an errand boy said he was very slack

and had to be driven. He was dismissed for disbonesty. He was employed due to staff shortage in the first instance, when he relieved his brother who had worked for the butcher for 2 years before he was called up. Allocation Survey: He had 30 jobs without continuity (seemed to keep a job never more than 2 months and sometimes only a few days). He has twice gone to L-

after committing some offence, saving he was looking for work but has given himself up to the police on arrival. Probation Officer: He should be up to better work than labouring. Cooking

seems a likely alternative and it would give him a trade where be could get living in iobs.

Housemaster: He is interested in cooking. (His eye may make him unfit for the Army.) He is practically blind in his right eye. Governor: As a worker he is steady and reliable and has initiative.

After Borstal discharge: On his discharge he was referred to the Juvenile Labour Exchange so that if he were registered as a disabled person, after the necessary examination, he could be submitted for a cookery course. On different occasions he was supposed to report to the D.R.O. as a disabled person but in September 1949 it was not known whether he had yet done this.

At first he did not seem able to settle in any job. He refused to give a reason for leaving his labouring job in March 1948. In February 1949 he was "put off" the hospital work because of a change of staff. His conduct was said to be good. When employed by both the dairy and the mobile fish van concern, he was said to be working very hard indeed and was earning approximately £14 per week.

Failure score: 14-1 (probation 4, not living with parent(s) 7-5, longest job 12 months 2.6). Comment: A long history of delinquency, physical handicaps, a broken home, delinquent brother, but no relapse.

### 2 Cases not included in the Statistical Study

VIII.97 Case No. 17. Born: March 1929. Previous convictions:

9.42. Stealing growing fruit. P.O.A.

7.45. Receiving. Bound over. P.O.A. and fined. 6.46. Stealing money as servant (8 cases). Bound over.

8 and 3 years' Borstal Detention 10.46. Housebreaking. Attempted bousebreaking. consecutively. Early 1948. Fined for insulting behaviour.

Physique and appearance. A weak dissolute face. Wearing an American style "tough-boy" coat. Height 5 ft. 61 ins. Weight 142 lbs. Health. Fit. I.O. Col. 36%.

Medical report: Sub-average intelligence. Personality: Elementary School report: He has never been really bonest or industrious. Never deserved a good character. Probation report: Has been difficult to supervise because of his attitude of independence and self-confidence. Deludes himself that he is "a bell of a fellow". Attitude to probation has varied

from indifference to truculence. His reporting was unsatisfactory. Plausible.

Put blame on others for his Court appearance. Police report: He is a very arrogant individual who would not hesitate to take advantage of any person with whom he comes into contact. Ready to say anything to get out of his troubles. Spoilt.

Borstal history: Allocated to an "open" Borstal Institution for immature lads. January 1947. Sophisticated lad. Has grown up too quickly. Has responded

better than expected because in early days he resented authority. April 1947. Slacked off a bit and accordingly taken out of the kitchen. The change is good for him.

June 1947. Satisfactory. Still has his off moments.

August 1947. Much better lad now.

Seems to do much as he likes.

Discharged February 1948. May 1948. Army. Seems happy. Recently fined £1 for insulting behaviour,

September 1948. Reporting regularly. September 1949. Expected back in England soon (November).

January 1950. Has got work as a labourer.

October 1950. Finishes licence. O.K.

Home conditions. Probation record: Adequate rooms in house. Police report: A comfortable working-class type of house which is reasonably well furnished. Family relationships. Police report, May 1946: The father has been in the Army

since 1942. The lad appears to be on good terms with his parents. Probation report: The mother is respectable, hard working and well intentioned.

(The father was not known to the officer.) The lad is on good terms with both, Report by Probation Officer previously handling the lad: The parents are separated, the father living in P-...... Wormwood Scrubs record: He lives with his mother on good terms but parental control during the father's absence in the Forces has not been effective. Recention report: A comfortable working-class home and he is on good terms with

his widowed mother. The lad says his father has been in the Army for the past 4 years and is now in Palestine. (There is no correspondence sheet in file to show whether the lad ever wrote to his father and if so where.) Has one older brother, three younger brothers and one younger sister. By November 1950 the lad was married and his wife had a baby (seemed very happy).

Religion. Church of England. Education. Elementary School report: No special ability. No defects to hinder

ordinary development.

Social activities. Elementary School report: Spent much time in billiard halls and cafes. Probation report: His absorbing interest is motor-cycles. Very keen to enter Army. Mother: Spent time digging the garden and helping me in lots of

ways while father was in the Forces. Wormwood Scrubs report: He associates with undestrables. January 1950. Had got a girl friend and expects to marry her.

August 1950. Marriage seems to work. Wife knows all about husband.

Type of work. Many labouring jobs since leaving school, mostly on bomb sites, Labourer 5 weeks, 39/- per week-

Labourer July 1945 to February 1946, 27 to 29 per week. Lahourer February 1946 to April 1946, £3 and bonus per week.

Electric van driver 2 months, £5 per week, Labourer until arrested, £4. 10. 0. per week.

Work habits. Left first labouring job above on own accord. Discharged from electric van driving for insubordination and absence.

Comment: If he had been included in the statistical investigation, his failure score would have been 16-9 (prohation 4, fined 9, longest job 9 months 3-9), i.e. Class X.

Dismissed P.O.A.

Bound over 8 years. P.O.A.

3 years' Borstal Detention.

Home Office Approved School.

Returned to Borstal Institution.

1 month's imprisonment (re-

VIII.28 Case No. 18. Born: September 1929. Previous convictions: 8.43. Lurceny.

9.44. Larceny. 3.45. Larceny (of revolver). 1.47. Storebreaking and larceny. (Escaped 6.47.)

6.47. Stealing.

Subsequent convictions:

3.49. Stealing.

called for Borstal training), 8.50. Stealing (20 other cases taken into 3 years' imprisonment, consideration). Physique and appearance: "A poor undersized midget," Lots of tattoo marks on

hoth arms down to the back of his hands. Good features. Slightly cov expression. Height 5 ft. 8 ins. Health. Normal.

I.Q. Col. 65%.

Personality. Probation report: He is a boy with low standards of conduct. He suffers from some sense of inferiority due to his small size, which tends to make him rather aggressive. Home Office Approved School: Of low character. Resentful of discipline. An exhibitionist anxious to demonstrate his smartness. The hoy said he could not get on with the other boys, who despised him because he was so small,

that is why he absconded ten times. Allocation Survey: Re first charge: said he had no fare to school. Re second charge: (stole a hievle) said he was "on the run from home", "Had beard about London." Third charge: He stole the revolver for another lad who gave him 5/-. Fourth charge: Was "on the run" from Home Office Approved School. He thought nothing of his ten escapes from Home Office Approved School. He can be quite aggressive as a form of compensation for his smallness. He is very easily led and very unrebable. Will dodge the column if possible. Home Office Approved School character: "One of the worst I have met, deceitful, underhanded, suave, a hully, dirty-minded and a constant source of Borstal history: Allocated to a "closed" Borstal Institution for immature lads

especially absconders. He was punished on different occasions for using obscepe and filthy language to an officer, for absconding (twice) and for fighting, Sentember 1947. He has had a strict time here-always coming up against it. with staff and lads alike. Has been advised to "grow up" and take things a bit.

seriously. December 1947. A remarkable change. Is really becoming steady.

March 1948. Has proved beyond doubt that he can he a good lad if he tries. Has developed a strong personality. He is an excellent leader and his group is the leading group in the house. Has got very careless. Is in with a clique. Lost his leadership. Has reached a stage where he either makes good or drifts,

October 1948. Working reports are good. He requires to be constantly occupied to keep out of trouble.

Discharged December 1948. Housemaster's discharge opinion: Of average intelligence with strongly marked emotional traits. Childishly petulant, he will cry scream, kick and raise hell because of no letter from home. The most sloppy young

man we have ever had. He will always promise to turn over a new leaf (until the April 1949: Received Portsmouth. On his discharge he went home and everything was very happy. He said he took half a day off from work to go with another lad who was on prohation to the W.V.S. to collect some clothes. On the way out he 208 took four pairs of trousers to pawn. A young twister despite the outward signs of

Has been punished for refusing orders, threatening officer, injury to officer when resisting arrest. Had a stubborn fit when he would not work-then bursts into tears and says his girl is pregnant, he does not know what he will do if his father

attempts suicide again, etc., he will he blamed for it, etc.

September 1950. This man is not recommended as suitable for further recall to this recall centre.

Home conditions. Has three brothers and two sisters at home. Two brothers

penitence and shame.

and one sister married. The family lives in a council house. The home is reasonably clean and fairly well furnished but rather untidy. He is the tenth child of a family of 13-9 of whom are living. The house is on a corporation estate.

Family relationships: Police report: He is on good terms with the family. The father is a neurotic. Every time the lad gets into trouble, the father attempts to commit suicide. The father has not worked for some time (November 1949). The father had been a shoe operative. He used to be very strict (although the lad appears to he on good terms with the father). The father was very strict with three older brothers, but once the neighbours complained when he was punishing a boy too severely. Since then he has let them go their own way. The father tried to commit suicide when he heard that the lad had been committed to an Approved School. The police were called but took no action. He was in hospital for about 14 days.

Three older children died at hirth. Married sister aged 21. Two married brothers aged 28 and 22-all living away from home.

At home-brothers aged 19, 18 and 14; sisters aged 11 and 9. The boy once

stayed away from home and was reported missing to the police. The lad now wants to go hack home very much. He is closely attached to the

family. He has a girl friend (has known her for 2 years) and they mean to stick to each other. The parents are very concerned about his exploits. Religion. Church of England. He attended Sunday School up to 14 years.

Was confirmed in Home Office Approved School. Education. At school he was said to be of average attainment and to have no

special ability or defect. He often truanted to train in hoxing. Social activities. He took up boxing when he was 9 years old. He used to lose schooling in order to train. He has boxed for several clubs and is very keen. He attended a Youth Centre occasionally but mostly spent his time with youths of his own age who were resident on the housing estate where he lived. On several ocea-

sions he, with other lads, slept out all night. They were often in mischief and pave considerable trouble. In Home Office Approved School he was in the Army Cadets and also played a lot of football.

Tupe of work.

Worked for hosiery company for 6 months.

Errand hoy (2 days), Packer (3 months).

Salvaging rubber (2 weeks).

Professional hoxer for 1 year (1944?).

Home Office Approved School: Did a painting course. Licence: April 1949-a paint sprayer, £4, 10, 0, per week.

November 1949. Volunteered for mines ("Medically rejected," he says); volunteered for Army (not accepted),

April 1950. A general hand. September 1952. A painter.

Work habits.

Left first job own accord-wages too low.

Left next job-was unsatisfactory. Lost next job-was unsatisfactory. Lost next job-dismissed for swearing.

Home Office Approved School: A work dodger.

Borstal record: He is not very truthful about his work. He wants to make an impression, therefore it is not easy to check on what he has done. He says he means to stick to painting. He was a work dodger and very unsatisfactory, but he bas a good opinion of his own work.

Comment: If he had been included in the statistical investigation, his failure score would bave been 17-2 (probation 4, Approved School 8, longest job

6 months, 5-2) Class X.

VIII.29 Concluding remarks.

The material at our disposal does not enable us to develop any sort of typological pattern, and in particular no typical combinations of factors have emerged. Moreover, while in some cases there appeared to be complete conformity between the statistical classification and the impression obtained from a study of the case record. a few exceptions could be noted where statistical and individual case study seemed to yield different results. The details given above of Case No. 2, for example, would hardly enable the reader to expect classification in the most favourable category A,

nor would Case No. 14 seem to deserve classification under category D. As would be expected, the most outstanding characteristics of our case material

are bad home conditions and family relationships, educational backwardness, absence of constructive leisure activities and poor babits of work. In addition, a surprisingly bigh proportion of cases with serious physical defects has been encountered.

VIII.30 An attempt to classify 44 of our 46 cases according to whether, regarding certain important factors, they seemed to show the characteristics normally found in lads from the same socio-economic background gave the following result (n= normal, a=above normal, b=below normal):

Physique	1	24	19	
Health		35	9	
LQ.		37	7	
Home conditions		20	24	
Family relationships		10	34	
Religion	3	41		
Education		5	39	
Social activities		10	34	
Type of work		33	11	
Work habits		17	27	

These figures show that, even taking as the yardstick the socio-economic conditions from which these lads came, they were below the average 204 times and above the average only 4 times out of a possible 440 (average 232 times).

## SUMMARY OF CHAPTER EIGHT

S.VIII.1 In the first part of this chapter the objects of including individual case histories in prediction studies are reviewed, and it is shown how such histories have actually been used in previous studies, i.e. mainly in order to make the statistical presentation more colourful and to illustrate differences between various types of offenders. Other objects, which have so far been neglected, are to use case histories to explain the various statistical score 210 classes of success and failure and to demonstrate the variety of factors which,

combined, may produce the same statistical score; to work out a typology of cases related to the various score classes; and to make a special study of atypical cases, i.e. cases who, in spite of favourable statistical scores, actually become failures and vice versa.

S.VIII.2 In the second part of the chapter, brief histories are given of 18 cases, grouped according to their statistical score classes, and it is stressed that the quality of the records made it impossible to work out any kind of typology.

## CHAPTER IX

# A Note on The Future of Criminological Research

IX.1 Every new research project should end by adding something to the pool of knowledge previously possessed, and should, therefore, have some effects upon the planning of future research. It seems that it might be desirable for us take atock of the results and cayestness arising from this project, noting particularly where the possibilities and limitations of the techniques used in this study might have any meaning or utility in the future.

THE FINDINGS OF THIS PROJECT (METHODS)

IX.2 We have, throughout this report, put on record a fair quantity of data width has little direct meaning in this project because we considered that it might be of value in the future in a negative way—tr might help in preventing others spending time unprovidably. The results of this project preventing others spending time unprovidably. The results of this project methodology. It is in methodology that we would consider we have been able to make our main contribution. In summary these methods are:

(i) It has been shown that optimum weighting (with avoidance of overlapping of the counting) affords a more efficient prediction instrument than the methods used in earlier criminal prediction studies. A method for combining the two basically different types of data has been found which produces practical results.\* (See Ampendiy III.)

(ii) The unpredictable group, which has resulted both in previous studies and originally in this project, has been found to be succeptible to further analysis and prognosis. Factors relating to personal differences may, it seems, after the carbonics of the more weighty factors relating to past criminality, break up this centre group. In accordingly 1, 58c Chapter VI, parss, 62-7, in projects designed accordingly 1, 58c Chapter VI, parss, 62-7, in projects designed

(iii) The utility of experience tables has been tested by "reflecting the results backwards" upon the procedures, events and treatments and thus a quasi-experimental situation, after and out of the normal events of criminal law and administration, has been created. Since the more usual experimental designs are generally regarded as impossible in the field of human behaviour, this technique seems to

have possibilities of development and wider application in criminology. (See Chapter V. pages, 128-56.)

<sup>•</sup> That is the solution of equations by separating the attributes from the variables, solving for attributes (using probits) and producing an artefact variable from the attributes; then solving for variables (including the artefact). The reduction of these processes, by recombination into a single score, provides a simple system of prognosis combined with high efficience.

blantion into a single score, provides a simple system of prognosis combined with high fedicative, well still be a "central group" after the secondary prediction, but it will be very much reduced in size, since we shall then have only these whole personality factors and good criminality factors result in their baving equal chances of failure or success. No centre group energed from our analysis because the numbers were too small to withstand more than a dichatomy of the "unpredictable" group from the direct qualities.

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  - (iv) A system has been worked out whereby long periods of follow-up may be found to be unnecessary, and by means of which, in any circumstances, it will be possible to test when (and to identify as soon as) the follow-up period has been adequate. This procedure also seems to have possibilities of wide applications.\* (See Chapter VI, paras. 42-50.) (v) It has been shown that the need to ensure that the experience tables
  - remain un-to-date for prediction may best be arranged by a system of continuous sampling possibly involving variable fractions. By this means the fact that the prediction system may be "drifting" with changes due to time trends will be noted immediately it occurs. The expense of testing by reworking the tables at intervals may thus be avoided together with the attendant risk that the large-scale tests might not take place until some time after the prediction system had broken down. (See Chapter IX, paras. 21-8.)
  - (vi) It has been established that those factors which discriminate between delinquent and normal populations do not always discriminate between classes of delinquent. This has a direct bearing upon subjective judgments. (See Chapter V, para. 89.)
- IX.3 Before we list the more practical and direct findings, some comment on the methodological results may perhaps be made. If we might underline one result which seems to be of more importance than any other, it would be that relating to the period of follow-up. (Item (iv) above.) Although it was possible to work out this idea only partially, it has become clear that the amount of extra information which extra follow-up time provides can now be estimated. The amount of information does not bear a simple relationship to the number of new cases who might fail, but falls far more rapidly. Thus in this project the difference between 1 year's follow-up (when about 50% of the "failures" had failed) and 8 years (when 80% of the "failures" had failed) was not significant. In future it should be possible to curtail follow-up as soon as the equations become sufficiently stable. The ways in which this result might be applied seem to be both of importance in securing economy in research and in increasing its efficiency. The problem of securing an adequate follow-up criterion and at the same time ensuring that the experience is not out-of-date when applied, has always been a serious one. The application of this technique in other branches of sociology and psychology seems also to offer numerous advantages.

PRACTICAL FINDINGS OTHER THAN METHODS

IX.4 Our conclusions in respect of results which do not emerge only as methodological are more tenuous. This is mainly because of the difficulties of securing sufficient basic data. Those of immediate and practical importance which may be fairly firmly established are:

<sup>\*</sup> This system will be recognised as the application of a type of sequential method to multiple regression techniques. It is, in effect, a system of predicting the mean or origin of the regression lines independently of the slope, and the rate of change of the slope is predicted the regression mass independently or toe sope, and the rate or canage or the sope is promised by a capetral system. When the change of alone courses to be significant, the follow-by a capetral system. When the change of alone courses to be significant, the follow-per course of the the independent prediction of the mean. This result some operations can be predicted by the independent prediction of the mean. This result some operations of the course of the of experience overed. Naturally the extreme values will not be covered, but the reliability of extreme measurements is the fit is some doubt, due to the small numbers of very good cases, or cases where failure is "everlaine". Probabilities of failure between 10% and 0%. seem to be met by this system.

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- (a) The results of treatment in "open" and "closed" Borstal Institutions have been examined. It appears that the treatment (and any other concomitants) of the "open" institutions results in a lesser risk of a failure than treatment in a "closed" institution. A large part of this result is due (and shown to be due) to the fact that the Borstal Reception Centres do an excellent job in identifying and sending the better risks to the "open" institutions. Not all the difference seemed, however, to be accountable to this fact. All risk categories emerged from the "open" treatment with about a 10% better chance of success than the same risk categories emerged from the "closed" institutions. This result was obtained by use of method (iii) above. (See Chapter V, paras. 128-46.)
- (b) The duration of detention, so long as it does not diverge very far from the mean found in this study, does not seem to have any effect upon the likelihood of success. A period of detention of, say, 20 months seemed not to have any better results than a detention of say, 14 months. This finding is not so firmly established as (a). If there is any gain in detention for the relatively long periods, it is clear that this advantage is small in so far as its possible therapeutic effect is concerned. (See Chapter V, paras. 147-56.)
- (c) Persons making subjective judgments seem on occasions to take into account the right factors, but to give them incorrect weights, so much so that in one case it was shown that so much weight was given that a worse result was observed than if the factor had been given no weight at all. Impressionistic reports were shown to give rise to very considerable difficulties in interpretation-at least to those concerned with our field work. It was concluded that action was desirable to make impressionistic material, and subjective indoments in general, more communicable. (See Table 68 and Appendix I.)
- (d) Definitions seemed to be uncertain in a large number of cases. (See Chapter V, paras. 12-13.)
- (e) The longer the period for which a youth is able to keep out of further trouble after discharge from a Borstal Institution the less likely is it that he will become a serious failure, if and when he should fail. Whether criteria of success or failure are taken as the simple fact of further conviction or no further conviction, or whether some attempt is made to assess degree of failure, the same system of prognosis seems to hold equally well. This seems to suggest a "general tendency" as measured by the experience tables. An analogy is seen with the concept of "general health", which when low predisposes individuals to attack by a variety of risks of infection. When the general resistance to crime is low, the likelihood of serious failure is greater and the greater is the risk of more failures. The prognosis seems to measure the general tendency and not any specific tendency in future crime. It has, therefore, a greater utility than if there were conflict between possible criteria. (See Chapter V, paras. 170-7.)

IX.5 In addition to the above items we have, throughout the report, made reference to things which might be done in the future. These references have been to specific items and made with regard to points specific to Borstal studies. It is not our intention to repeat these detailed items here, but to take a more general view. In many respects we eannot be sure whether our experiences in this study would be similar were we to have attempted a similar exercise with data relating to other treatments. Where mattern have seemed to be of general importance, we have still made our points with specific reference to Boutsla!

## RECOMMENDATIONS

IX.6 The difficulty in finding records which can be used for research purposes seems to us to spring from the difficulty of convincing people whose supreme interest is in individuals that objective data are so very much more valuable than impressionistic reports. Case workers feel cheated out of something if they are "restricted" in their comments. There is, of course, no reason why they should not make free comment in addition to objective noting of information, but the gleaning of information which may or may not he contained in the free style reports is always unsafe. Case workers' reports are certainly used for purposes other than research investigations, but in general the case workers never see the end products of their work-they never experience the difficulty of interpreting what they have written. They do not realise that their methods of reporting, and the things they consider worthy of note or not worthy of note, do not agree with other case workers. If they realise that differences exist, they usually believe that their method of reporting is best, and that others ought to cover the same ground and in other respects present material which is comparable with their own. Each case worker tends to have his or her own reference points. The problem seems to be to find a system which will retain the case worker's cuthusiasm and his necessary individual approach and at the same time provide data useful for comparative studies and research investigations. It is not within the province of this report to suggest detailed methods to this end. It is however, questioned whether the free-style reporting, which can be shown to have so little value in research investigations, is, after all, so much better, as is claimed, than a more controlled system when used for purposes other than rescarch.

IX.7 In the view of the authors, the data which are to be used either for research or administration should normally be recorded in the form in which they will eventually be used or as nearly as possible. Not only does this save time and money, but it gives the originator of the information direct access to the end user and uses. It is his material which is fed into the calculations, or upon which the administrator acts, and not a third party's interpretation. If the material has to be edited, coded or subjected to content analysis before it can be used, there is introduced a further stage from which error can arise. In these circumstances it is not the case workers' reports which are being used but some editor's views of what the case workers meant by the reports. The need for the narrative report to be passed through a further stage before it can be used for research purposes greatly reduces its power. The same is true of any other form of report which does not come direct from the field concerned in the form in which it can be used. This may mean that data for research purposes needs to be considered separately from data for administrative purposes. For example, the administrator may require a general subjective impression of the home conditions, and he will be able to utilise both what is said in the report and what he knows about who said it. On the other hand other purposes demand reproducibility. In our case, for example, we need all case workers to report the same information in the same way, otherwise we should be faced with the impossible problem of making a separate experience table for each case worker.

# NATURE OF RECORDS IX.8 It may be helpful if a few observations were made on the nature of

the records which might be required for research and administrative purposes. Data are of four categories of permanence and frequency:

(I) Those which are always essential for every case.

- Those which are always essential for every case.
   Those which it is sufficient to collect for a period only for every
- case.

  (III) Those which need not be obtained for every case but are required
- continuously.

  (IV) Those which need not be obtained for every case and are not required continuously.

There is, perhaps, a fifth case, namely data which are not really required at all, and this class has a tendency to recruit continuously from the other categories, mainly because the value and economy of the sampling systems of types (II), (III) and (IV) are not sufficiently appreciated. Any revision of the requirements for information might well start by questioning all items not in class (I). The reduction of the amount of data can only help in increasing the reliability of the remaining categories. It is generally believed that research workers require far more data than any one else, and that this is what makes research an expensive undertaking. This is not so. The research worker does not want data, but "information"; indeed large quantities of data can be a source of embarrassment. The term "information" is here used in its technical sense. It implies utility-in fact, the amount of information in data is the amount of useful information which they contain, or is a term indicating the "power" of the data. Until research is carried out the value within any data (the amount of information) cannot be estimated. Data which contain information look on the surface much the same as data which contain no information.

IX.9 The processes of efficient research may be seen as analogous in many ways with fishing. First a net is made and lowered to see what comes up; then the contents are examined and much is found to be useless; the mesh is changed and the depth of the drop is modified so that the amount of the fish required is maximised and the amount of other material and other fish is minimised. Often the first step of a research worker is to amass data. As soon as the tests have been completed, he can dispose of large quantities of data which yielded no appropriate information. Hence for research purposes sampling techniques offer an adequate and economic procedure. The different areas of interest to the research worker are better explored serially, with each project having a defined but limited scope and providing specific answers to specific problems. To attempt to cover continuously all data which might be useful for research purposes is not the best policy. The administrator should take over into his administrative records only data which the research worker has shown to be administratively useful. Thus we would suggest the minimising of continuously recorded information, with focused research on specific problems from time to time. We may then summarise what we have in mind (if we may change the analogy) as a continuing "winnowing" and consolidating process.

## DECISION METHODS

DA10 In the collection of data we have suggested that them is value to be gained from a close lation between the administrator and the research worker. Because the collection and the collection of the collection and the function of statistics is to assist in deciding what this future action and the function of statistics is to assist in deciding what this future action and the function of statistics is to assist in deciding what this future action and the function of statistics is to assist in deciding what this future action and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action, and the function of statistics is to assist in deciding what this future action and the collection and the collectio

IX.11 This is a new slant on the philosophy of science due mainly to Wald.(2) Lindley(1) remarks, "I think that the emphasis on the idea of decision is Wald's greatest contribution to statistical ideas". Most statisticians would doubtless agree. In criminology, research with the emphasis on decisions rather than on finding out things (particularly "causes") is certainly likely to take us much further much faster. It is possible to take a decision problem into the "statistical laboratory" and to work out a theoretical model which will indicate how the decision is likely to operate in practice. This means that new administrative decisions need not be taken in the dark (or light of faith alone) but can be subjected to test conditions before application. An example of this idea might make the matter more clear. In this study we examined the success rate of boys of different risk categories to see how they reacted when they were detained less than an average time in either "open" or "closed" Borstals. This examination suggests a decision problem which might have been phrased thus: "if we release boys from Borstal to licence earlier than has been the custom, what would be the effect on the success rate?" Or, "suppose we were to release only boys who had a good prognosis carlier, would this be a safe procedure?" The statistical model has tested these possible decisions in theory. It could similarly test many other such types of decision problem. It does this without invoking any theory about the "causes" concerned. Indeed "cause" is an unnecessary concept in the whole of this part, at least, of the criminological field. Another decision which was tested by statistical models in this study was one which might have been phrased, "should we consider building more open institutions or more closed?" The statistical model suggested that the success rate of the "open" Borstals was, even with the most unpromising material, better than that of the "closed" institutions. This answer does not meet the whole of the points in the possible decision problem, but the model might be extended to cover them. It is because we see great scope in the "decision" approach, by the statistical construction of theoretical decision models, that we suggest that the administrator should be an essential collaborator in all or most criminological work. We shall later discuss more complex decision models which have, perhaps, a more realistic ring about them than those mentioned as illustration above.

## DECISIONS AND THEORY

IX.12 Throughout this study we have taken as the objective the need to

obtain a best estimate of the probability of failure for each case. This should not be confused with the simplified model which involved the idea of obtaining the maximum number of cases "correctly" classified, this simple model, as we indicated, was inefficient since it took no account of probabilities except in two categories. There is, however, more in most decisions in the field of human behaviour than merely providing one "best" estimate. In chemical or industrial processes it is usually a simple matter of minimising costs of production or of maximising output, but here we may well be concerned with other things than the correctness of the estimate of risk of failure. It might, for example, be a far more serious thing to send a lad who is classified as a likely success to an "open" Borstal should he, in fact, fail, than it would be to send a lad classified as a likely failure (but who subsequently succeeds) to a "closed" Borstal. The administrator knows what decisions he has to make and also the importance of these decisions. The theoretical models of the decision problem might well need to include some consideration of the greater need for some decisions to be right than others. Development along these lines seems to be necessary. The methods exist. To illustrate this point we might take as a specific example a development of the decision problems we discussed earlier. At the moment we have considered only the successfailure rate as a basis for our statistical model decision to build more "open" Borstals. In this model we regard an error in classifying a success as a failure with the same weight as an error of regarding a failure as a success. This might not be a true model. It might well be more serious to classify a failure as a success than a success as a failure. This may be overcome by assuming that every "wrong" decision has a "penalty", and that the "penalties" attaching to some sorts of wrong decisions are greater than those attaching to other sorts of wrong decisions. Thus, although we may suggest that if all cases were sent to "open" Borstals (no matter what their prognosis) the success rate might increase, we might be more interested in increasing successes amongst the better type of boys, but regard the risk of absconding and committing further crime as too great a price to pay for an overall increase in the success rate if the bad boys received similar treatment. This problem could be solved by further experience tables including abscondings, or we might attach other weights to certain classes of wrong decisions. Similarly in other fields in criminology the weights (degrees of importance) attaching to decisions might be objectively measured and taken into account. Alternatively, administrators might be able to assess the relative degrees of importance of different decisions. In either case we should not merely minimise the number of wrong decisions, but minimise the amount of harm that would be done by making a wrong decision; that is, determine the optimum decision taking both the effects of the decision as well as the probability of its correctness into our equations. The problem now is not now to predict, the methods exist-but what to predict, and who shall formulate the problems.

## icinia.

FUTURE RESEARCH OBJECTIVES

IX.13 The lines to be taken by future research should, it seems, be determined mainly by the problems which are most pressing at the moment. There are no missing links in the chain of "pure research" in criminology which need first to be cleared. Indeed, it seems more likely that fundamental knowledge will best be gained, not by seeking it directly, but as by-products of

both the value of the information and the cost of obtaining it. IX.14 Our priority list of projects which arise from the present study are:

- (i) Set up checking mechanism to maintain validity of tables produced in this study (detailed suggestions follow). (ii) Follow-up the cases in this study for further trial period. (Data
- exist, and this could be done very economically. Such a study would produce evidence of the correctness of our conclusions about the continuous nature of criminal tendencies.)
- (iii) Carry out similar research to the present study, with the modifications suggested at the beginning of this chapter, into Home Office Approved School boys (seniors).
- (iv) Carry out a similar project with "young prisoners".

Projects (i) and (ii) are suggested as a means of extracting all the relevant information from the present project. Projects (iii) and (iv) deal with a similar or contiguous age group of lads which, by comparison with the present study, would make both this study and those which might be carried out more valuable than if research were done on an entirely different age range which represented no continuity with this project, or on cases where the sentences passed were very much less severe or very much more severe than those of the present study.

IX.15 Since the first and second items on our suggested list of projects link up directly with this study, we give some further details of the proposals below.

CHECKING AND MAINTAINING THE VALIDITY OF THE PREDICTION TABLES IX.16 The problem of maintaining the validity of the use of the experience tables provided in this study, and the methods by which we suggest this might be done, may best be explained by analogy with problems in industry where, of recent years, statistical methods have been widely applied. During the 1989-45 war it was necessary to ensure that shells and other mass-produced equipment did not fall below a certain standard. At the beginning of the war the majority of firms relied on inspection systems to ensure the continuance of the quality of production. In many cases every item was inspected for compliance with specification at various stages of manufacture. This 100% inspection was both a time-comsuming and wasteful procedure, but no other methods of ensuring good quality were then known. By the end of the war two basically different statistical procedures were being widely employed. These procedures were regarded as so valuable and important that the Ministry of Supply set up a special department to explain the methods to manufacturers and to design and install the statistical schemes to meet specific problems. These two methods were known under the general heading of "quality control". The systems enabled the maintenance of quality to be checked witbout 100% inspection and gave warnings of any deterioration of quality far more quickly and effectively than the older and far more expensive systems. The majority of the larger industrial firms now use these methods. Both systems rely for their information on samples.(3) When these methods are applied to test the running of a machine the results of the sample checks are plotted graphically on a chart kept on the machine itself, so that information is available where it is needed and immediately it is needed. Other

applications of the methods enable tests to be made on goods received-answering such questions as whether the hatch is not be standard or not, and indicating whether the hatch should be rejected or accepted within the indicating whether the problems different system of sampling is used to be applied the problems of the problems of the sampling in the sample of the problems of the problems of the problems of the whole the problems of the problems of the whole the head. He wants to know immediately his sample information has fold him whether his hatch of goods may be accepted or whether it should be rejected. He also wants to know all the time that the problem of acceptance or reject in examination which will enable him to make his decision to complete the problems of accepted or reject. This latter system of sampling is, known as "expectations ampling".

IX.17 This outline of industrial quality control methods is necessarily incomplete, but may be adequate to make the point we wish to make hy analogy. IX.18 We wish to know whether the quality of the prediction equation may he accepted, and if so, we shall need to know from then onwards whether it is maintaining its quality at all subsequent dates. If it shows signs of falling off we want to know immediately so that we may "stop" and adjust the "machine" (i.e. cease to use the old equation and set about huilding another which restores the quality). Our position is thus the same as that of the industrialist. If he goes on making products which fall helow standard they will have to he scrapped at a loss to the firm. He wants to know at the earliest possible moment when to suspect the output of any machine so that he can prevent it getting out of control. Quality control methods do just this for him. Very much study has been given to the statistical problems involved and we can take direct advantage of all the appropriate theoretical models. It seems likely that the efficiency of our system hased on these models would he very high.

N. C. Y. Mes.

K. M. Thougher, we wight employ are, in fact, more powerful than those K. M. Thougher, When an industrial impactor samples a batch of goods received, he samples at most the worst failures, and thus the data which come to us for inclusion in the sampling processes are ordered in a manner which we can utilise in addition to the fact that the lad was or was not a failure within a given time, or we could consider different intervals of time between release and recommittal. The exact model which would provide the heat estimate can only he derived after we have been able to make some estimate of the weight attaching to wrong decisions. If the chance of regarding a failure as a access is more serious an error than the reverse, then the failure so that the third provides the same control in the continuing control limits could take this into account.

IX.30 It might, perhaps, he said here that this method avoids the objection of the static nature of "experience". The sampling techniques we propose are continuing dynamic models, utilising experience continuously and at the interest continuously and experience of the static natural continuing dynamic models, utilising experience continuously and at the interest some system along these lines is essential. By has arise all the time as by-products of the various administrative processes through which the individuals pass on their way to and from Borstal. The harnessing of these by-products about in other and the process. Once the scheme has here by-products about in other law to a very coulty process. Once the scheme has here have been considered to the contraction of the contraction

why clerks should not be similarly able to carry out the work. The routine procedures continue until something goes wrong or shows signs of doing so. This means that the equations have become suspect. At this stage the clerks would require to contact the statistician. But from what we can gather from other researches, there seems to be little chance of the system breaking down, unless administrative changes are made in the system which affects the types of lads who are sent forward for such treatment. In this case the equations would not be expected to hold.

IX.21 The setting up of such a continuing system should, however, not result in its being left running indefinitely so long as it shows no sign of breakdown. A manufacturer will consider replacing a machine which is still producing because it will be more economic to obtain another or because a better product might be turned out. It should always be borne in mind that it might be possible, when the data are better, to build an equation which would predict, not to a contingency of 0-45, but to some higher figure. When we can make such an experience table, we should set to work to do so-there would be no point in ensuring that our old equation was working to 0-45 if this blinded us to the fact that another system would work better.

IX.22 It should be said that this process, highly mechanical as it must seem to those skilled in individual case work, does not involve the lad himself in any way. The Borstal boy is not being subjected to these mechanical processesthe system is a check only on the validity of the prediction system. The use which is made of the prediction system has no such checking device.

AND THEN? IX.23 When we have a continuously valid prediction table for Borstal, and tables relating to other treatments (e.g. prison, fine, probation, discharge), it would be possible to provide the Courts and others concerned with the disposal of cases with a useful tool. It would be possible then, when a youth came before a Court, for the Court to be provided with information regarding the treatment most likely to be successful within the definitions used in this study. This would, of course, be additional information to that regarding the nature of the offence and all other information now obtained. The Court could be informed that if the lad were sent to Borstal he would emerge with an estimated chance of not being reconvicted of, say, x%, that if he were put on probation, then the same chance would be y%, and if he were sent to prison for a short sentence, the similar chance would be z%.\* The Court could then decide whether the case should be given that treatment which was most likely to result in no further conviction, or whether other factors outweighed this view-whether it was justified to reduce the lad's chances of success in order that some other points of justice or social need might be met. It has to be borne in mind that the prevention of further crime, though one of the important objects of criminal justice, is not its only object. The quality of justice could not be strained by this additional information.

There is no reason why prediction should not be developed outside the field of recognised delinquency, so that it might become possible to identify the likelihood of boys (or girls) becoming delinquent in later years. † The early \* On "study of effect of different methods of peno-correctional treatment": sec, c.g.,

S. and E. Glueck, Juvenile Delinquents Grown up (New York, The Commonwealth Fund, 1940), Chapters XIII et seq.

† On "prediction of delinquency for non-delinquents": ibid., Unraveling Juvenile Delinquency (New York, The Commonwealth Fund, 1950), Chapter XX.

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identification of potential delinquents is now regarded as one of the main tasks

of the practical criminologist and educator. It might then be possible to link prediction tables with preventive as well as reformative measures,

The provision of information relating to risk should also be useful to the After-care Association both in order that they might appraise the value of their normal work and any experimental methods that might be evolved. The selection of the most appropriate form of after-care for each case is also likely to be brought within the area of possible study. Such studies would be closely analogous with our attack upon the problem of the value of "open" and "closed" institutions within the Borstal system. At the lowest level, the risk category would afford a challenge to the staff and, perhaps, even an additional incentive. A worker's case load could be assessed and discussed in terms of "difficulty".

We offer the tools we have made, but would like to say that, whilst a carpenter may do much with only a hammer and a saw, a complete armoury of tools is really necessary before the workmanship can be fairly assessed. We think we bave found a way of making a set of tools of considerable notential value, but so far only one of the necessary set is made.

## SUMMARY OF CHAPTER NINE

S.IX.1 The main results of this project are believed by the authors to lie in the field of methods. In summary these are:

- (a) It has been shown that optimum weightings (with avoidance of overlapping of the counting) afford a better prediction instrument than the metbods used in earlier studies.\*
- (b) The "unpredictable" group, which has resulted both in previous studies and originally in this project, is susceptible to further analysis and prognosis. Factors relating to personal differences may, after the extraction of the more weighty factors relating to past criminality. break up this centre group. In future studies this should be planned for and the studies designed accordingly.
- (c) The utility of experience tables has been tested by "reflecting the results backwards" upon the procedures, events and treatments, and thus creating a quasi-experimental situation after and out of the normal procedures of criminal law and administration. Since real experimentation is almost impossible in the human field, this technique seems to have possibilities of development and wider applica-
- (d) A system has been worked out whereby long periods of follow-up may be found to be unnecessary, and by means of which, in any circumstances, it will be possible to test when (and to identify as soon as) the follow-up period has been adequate. This procedure also seems to have wide general applications.
- (e) It has been shown that the need to ensure that the experience tables remain up-to-date for prediction may best be arranged by a system of

regression techniques.

<sup>\*</sup> That is, the solution of equations by separating the attributes from the variables and subsequently recombining into a single score, provides a simple system of prognosis com-bined with high efficiency. † This method will be recognised as the application of a sequential method to multiple

continuous (and variable fraction) sampling. By this means the fact that the prediction system may be "disting" with changes the fact that the prediction system may be "disting" with changes due to time trends will he noted immediately it occurs. The expense of testing by reworking the tables at intervals may thus be avoided together with the risk that the large-scale tests might not take place until some time after the system had broken down.

(f) It has also heen established that those factors which discriminate hetween delinquent and normal populations do not always discriminate hetween classes of delinquent. This has a direct bearing upon subjective judgments.

S.IX.2 If we might underline one finding, it would be that relating to the period of follow-up. (Rem d.) Although it has been possible to work out this idea only partially, it has become clear that the amount of extra information which extra time of follow-up might provide can be estimated, and the follow-up curtailed when and as son as the situation has become sufficiently stable. This stability, it appears, is achieved much more quickly by the stable. This stability, it appears, is achieved much more quickly by the stable. The stability, it appears one and gain information accordingly.\*
S.IX.8. The other results of this project might have been expected or the methods used more obvious. It is the value to be gained from viewing the methods and more obvious. It is the value to be gained from viewing the statution as a dynamic situation and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution as a dynamic situation and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution as a dynamic situation and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods and models are the statution and designing the methods are the statution and desi

## PRACTICAL FINDINGS OTHER THAN METHODOLOGICAL

S.IX.4. Our conclusions in respect of results which do not emerge only as methodological are more tenuous. This is mainly because of the difficulties about the basic data. Those of immediate and practical importance which may be fairly firmly established are:

- (a) The results of treatment in "open" Bentral Institutions are more often heter than those of the "Goods". A large part of this result is due to the fact that the Reception Centres do an excellent job in identifying and sending the heter risks to the "open" establishments. Not all the difference seems to be accounted for by the better material upon which the "open" system operates, since all classes of risk emerged from the "open" Bentals 10% better than the same risk extreveries encored from the "obent".
- (h) The duration of detention, so long as it does not diverge very late from the mean found in this study, does not seem to have any effect upon the likelihood of success. A period of detention of, say, 20 months seems not to have any better threspectic value than a detention of, say, 1s months. This is not firmly established, but if there is say advartage in the longer periods of detention the gain is
- (c) Persons making subjective assessments seem to take into account

avstem.

<sup>\*</sup> This is in effect a system of predicting the origin of the regression lines independently of their slope, and the rate of change of the slope is predicted by a modified sequential

the right factors, but to give them incorrect weights, so much so that in one case so much weight was given that a worse result was observed than if the factor had been given no weight at all.

S.IX.5 Although some considerable study was devoted to subjective judgments, the difficulties of using these sorts of data were avoided rather than resolved. This was because the need for reproducibility was seen to be of major importance, and the hetter place for the exercise of judgment appeared to be after the use of experience tables rather than as part of them or before their use. In the ways in which we found it possible to utilise intuitive assessments, they were found to be of small significance. This finding has, how-

ever, limited scope and should not he completely generalised. S.IX.6 For the purposes of the application of the methods of research and analysis used and proposed in this study, it is concluded that attempts should

he made to render impressionistic reports more communicable. S.IX.7. It is also concluded that too much data can be an embarrassment both to administration and efficient research, and means are suggested for reducing the amount of data without loss of effective information.

S.IX.8 The use of 'decision theory' is recommended both as a research tool and as administrative aid. The close co-operation between the administrator and the research worker is regarded as likely to result in valuable contributions to knowledge about offenders and their treatments. In particular it is considered that administrators could give research workers further considerations of importance which should be accounted in their assessments and calculations. The result of an experiment, even in the purest hranch of science, is considered to be a guide to future action, and often the processes of research could be expedited by bringing the decision problem into direct association with the data, rather than for the data to pass through stages of theory and hypothesis formation divorced from likely or possible future action.

S.IX.9 The use of mathematical models which reproduce the likely effects of likely decisions, and which may be constructed on the basis of existing data, are recommended. The variations in the natural, usual and everyday processes of administration of justice may be regarded as affording quasiexperimental situations after the event.

## FUTURE RESEARCH

S.IX.10 It is not considered that there is any vital missing link in any theory of crime which needs first to he found or which should have priority of research. Whilst "pure" research doubtless has a place in this field, it is considered that "operational" research holds out a good chance of providing the

next major advance.

S.IX.11 Research merely for the sake of gaining knowledge-"pure research"-doubtless has a place in criminology, and it is not our suggestion that the freedom of the research worker to choose this aspect of research should be impeded. We feel, however, that another approach which we may call the "operational research method", offers the greater likelihood of advance at the present time. Progress in the operational approach need not wait upon any new theory or technique of analysis. There are already too many theories which hold their own today only hecause they have not been tested, and many useful techniques are available. As social scientists we see no reason why we should not accept, without inhihitions about "purity", the challenge of existing problems.

## REFERENCES TO CHAPTER IX

 D. V. Lindley, "Statistical Reference". Paper read before Research Section of Royal Statistical Society (to be published in J. Royal Statistical Society, 1933 (B) 15).
 A. Wald, "Statistical Decision Zunctions" (1960), London, Chapman & Hall). (3) B.S. 600 R. British Standards Publication.

(4) A. Wald, "Sequential Analysis".

# APPENDIX I

# Code List for Analysis of Case History Files

A. CODES TAKEN FROM THE BORSTAL ASSOCIATION FOLLOW-UP RECORDS Reference Age at committal

Number	Years Code	
A1	16 6	
	17 7	
	18 8	
	19 9	
	20 0	
	21 1	
	22 2	
	28 8	
A2	Age at first finding of	guilt
	Years Cod	e
	under 11 Y	
	11 9	
	12 8	
	18 7	
	14 6	
	15 5	
	16 4	
	17 3	
	18 2	
	19 1	
	20 0	
	21 x	
A3	Total number of app	ear-
	ances in Court resul	
	in finding of guil	t
	Actual number writt	en in
	from 1-8. 9+ coded	
	Number of Court appea	manage .
A4	resulting in fines	- Control
	Actual number writt	en in
	from 1-8. 9+ coded	
A.5	Number of Court appear	
	resulting in penalt	ies
	(other than fines)	
	Actual number writi	
	from 1-8. 9+ coded	as 9.
N. D. (If choice	of fine or imprisonment it was	coded as fine ur
(If fine an	d other committal it was coded	as penalty und

nder A4 above.)

er A5 above.)

M. ....

226	PRI	DICTION METHODS IN BORSTAL TRAINING
_	Reference Number	
	A7	Where he went on discharge Home Code 4 Forces , 5 Other ,, 6
	A8	Job changes during licence
		If none Code 0 Code actual number up to 9. Over 9 and under 12 Code x. 12 and over Code Y.
	A9	Type of first job on licence
		Errand/roundsman/forry driver's mate, etc.         9           Labouring and other unskilled work         8           No employment since school         7           H.M. Forces         6           Skilled trade in the building industry         5           Other skilled trades         4           Apprentiseships of any kind (bound)         3           Others         2
	A10	No. of crimes after release on licence to \$1st August, 1951 (including taken into account) Code actual number 9+ coded as 9 x=sent to prison y=essuped and not recaptured
	A11	Any evidence of drunkenness  No Code x  Yes Code y  Number of convictions: Code actual number
	A12	Period between leaving place of detention and first subse- quent conviction
		No farther erime         Code 0           Less than one month         8           4-6 weeks         8           6-8 m         7           6-8 m         7           6-8 m         6           5-4 m         5           4-6 m         4           6-9 m         3           1-1-1 years         2           1-1-1 years         1           1-2 m         1           V Cver 2 years         Y
	A13	Type of first crime This information was found in the police report. Assault 1

0-85

£5-£50 over £50

Robbery/larceny

Reference
Number
21 00000

		25	£50 r £50	8 <
		ow	r £50	
Receiving/fr	aud/fo	rgery		4
Sex offences				5
Wilful dama	ge/bre	ach of	recog-	
nisance				6
Absconding	from	Home	Office	
School				7
Others				8

## Al4 Governor's Prognosis

A17

Burglary

Code =0
, =4
=8
., =2
,, =1

## A15 Housemaster's prognosis Don't know or uncodeable

Bad	22
Pair	**
Good	**
Very good	**

B.O., P.O.A., and conditional discharge

Code =0 =4 -8 -2 **—1** 

> 7 8

> > 5

6

7

8

## A16 What lad is doing at present date Don't know or uncodeable Free in no further trouble Absentee or charged with crime Borstal licence revoked

Prison up to 1 year's sentence

Prison 1 to 3 year's sentence
Sentence over 3 years
In mental insitution
Type of first crime after discharge
Coded as for type of first crime item A13 on sheets

Also no crime coded 0

## A18

Sentence on first crime after asscharge	
Does not apply or unknown	
Any detention Fined, B.O., P.O.A., and conditional discharge	

Borstal licence revoked New Borstal sentence Prison up to 1 year Prison up to 8 years Prison over 8 years

## Reference

228

## Number

DATE OF ENTRY TO ALLOCATION CENTRE (i.e. Latchmere House or Wormwood Scrubs)

The period covered by the study is 1st August, 1946, to 31st July, 1947. Code in accordance with the month. This information is usually found on the Court order just inside the cover of the file.

CODE		
	August 1946	8
	September	9
	October	x
	November	×
	December	0
	January 1947	1
	February	2
	March	8
	April	4
	May	5
	June	6
	July	7
	(If before August 1946 Code	8 but

t compute length of stay (item B12) from correct date of committal.)

#### **B**9 BELIGION

To be found on outside cover of file.

Nonconformist	0
Church of England	1
Non-Christian	2
Atheist	8

Ba COLUMBIAN TEST SCORES (on cover of file)

90...99

Feltham

Uusually on the outside cover. May be verified by reference to enclosure envelope.

Under 10%	0	
10-19	1	
20-29	2	
80-89	8	
40-49	4	
50-59	5	
60-69	6	
70-79	7	
80-89	8	

(Hiterates in lowest score unless evidence to contrary.)

BORSTAL TO WHICH ALLOCATED (i.e. to which first allocated) Roestal

B4

Portland. 07 Lowdham Grange n Camphill 08 Nottingham 04 North Sea Camp ov Hollesley Bay Co. ox Usk 02 Huntercombe 00 Portsmouth 08 Gaynes Hall 00

Gringley

Hewell Grange

#### RS NATIONALITY

Found on home and school report form. This applies to the place of birth. 1 (including N. Ireland)

11

12

Wales England 3 Scotland 4 Other 5

# STATUS

Be

Found on home and school report form. Single 3 Widow 2 (including divorced) Married 1

### **B7** PHYSICAL GRADE

State of general health (medical record). Some physical defects No physical defects

#### B8 AGE AT FIRST CRIME (i.e. first recorded crime)

Under 11 11 12 18 14 15 16 17 18 19 90 21 and 22

The date of first conviction will be found on the police report, and that information with date of birth (also in same report) should establish age at the first erime committed, for example, a subject born in March 1929 and convicted of first crime in December 1942 would be 18 at the time of the crime.

> Ra TYPE OF FIRST CRIME

> > This information will be found in the police report.

Breaking and entering/sobbery/larceny 0-25 5--650 over £50 Burglary (9 p.m.-6 a.m.) up to £5

6

n

£5-£50 4 over 850 Receiving/fraud/forgery

Sex offences Wilful damage/arson Absconding from Home Office School

Others/including breach of recognisance If more than one code might apply to any one crime.

use the code number which is higher, preferring numbers to letters. B10 TYPE OF CRIME FOR WHICH COMMITTED TO ROBSTAL

Code as above. Information appears on the order committing youth to Borstal.

B11 NUMBER OF CRIMES TAKEN INTO ACCOUNT WHEN COM-MITTED TO BORSTAL

(No: Taken into account, Borstal Institution crimes.) Enter the number of crimes taken into account when facing the charges which resulted in the Borstal sentence. Actual number written in from 1-8. 9+ coded as 9.

P19 TIME IN BORSTAL TRAINING

> This includes the time spent at the allocation centre of either Wormwood Scrubs or Latchmere House. The time to be coded is, therefore, the time between the date on the committal order and the date of release to licence-shown on the Borstal/History form.

Up to 12 months 4 weeks 18 months 14 15 18 17 5 18 19 7 20 8 21 9 22 v 28 or more

B13 ANY MISDEMEANOURS IN BORSTAL

These are usually the red ink entries on the history

form. Write in the number of such, including absconds, but excluding promotions to grades, which may also be in red. Actual number written in from 0-8. 9+coded as 9.

B14 ABSCONDING FROM BORSTAL

Ensure that this information, like all other, relates to the Borstal term which we are considering. If a lad had absconded from his first Borstal and received a further sentence because whilst away he committed further crimes, Code X applies. In all other cases write in the number of abscondings or attempted abscondings. Code 0 is no abscondings.

B15 LETTERS RECEIVED WHILST IN BORSTAL

This information will give us some measure of the
lade contact with the "outside world" whilst serving

lad's contact with the "outside world" whilst serving his training. A list of letters written and received will be found in most files. Count the number of letters received. Number of letters received:

Number of letters received:

5-14 1 15-24 2 25-34 3 35-44 4 45-54 5 55-64 6 65-74 7

75-84 8 85+ 9 No trace of letter record sheet x.

LETTERS WRITTEN WHILST IN BORSTAL Same treatment as above.

B17 GOVERNOR'S REPORTS

B16

Governor's report at the end of the lad's stay in Borstal whether they think that he will eventually "make good" or not. Unfortunately, different report in different ways, and we can only arrive at an assessment after reading the different restriction. Styles. We cannot directly use the Governor's report. We want two interviewers to assess the meaning of each report as to its moremous. You will be bridged on this

method.

B18 nouseMaster's prognosis

As above. A five-point scale will be used for each

assessment:

Bad
Poor
Fair
Good
Very good
No information

B19 LENGTH OF STAY AT LAST ADDRESS

This will be found generally in the police report or may be in the Lady Visitor's report, or some other place. This spylles to the time that the youth has lived at the address where he was staying when he committed the orime for which he was sent to Borstal. Time spent at other places as punishment for other

crimes does not count. Since childhood Less than 1 year × 1-2 years 9 2-8 8 7 24 4-5 5-6 6-7 7-8 8\_0 9+

No trace of information Y

B20 ASSESSMENT OF HOME CONDITIONS
Best assessment available from police report or

Probation Officer's report.

Good 1
Fair 2
Bad 3
No information V

D.N.A. x

B21 occupation of head of household at time of chime
Information found on either home or school report.
No information traced
Not amplicable x

Not applicable x
Unskilled (including roundsman and Forces)/
labourer
Skilled worker 8
Shop worker (not rounds)
Clerked grade (100 clerked) grade (100 clerked)
Professional/manager/technical 6
Supervisory (including chargehand and foreman) 4

2

Other H/wife

B22 SUBJECT'S LAST OCCUPATION
Found on home or school report.

Errand/roundsman/lorry driver's mate, etc. Labouring and other unskilled work No employment since school H.M. Forces

Skilled trades in the building industry Other skilled trades Apprenticeships of any kind (bound) Others

Unemployed

```
Reference
Number
  B23
        LONGEST PERIOD IN ANY ONE JOB
                Less than 1 month
                4-6 weeks
                6-8 ...
                2-8 months
                2.4
                4.6
                6..0
                9 months to 1 year
                1 year to 11 years
                                        ī
                More than 18 months
                    Not applicable
                                        x (i.e. no employment
                                            since left school
                                            Code 7 as in item
                                            B22)
                No trace of information
        AVERAGE DURATION OF JOBS
           Average to the nearest figure in months taken.
         Actual average written in from 1-9.
                10+ coded as
                No trace of information v
                Not applicable
  B25
         TYPES OF ACTIVITIES
           Parents and school report, or on police or probation
         report.
              No information
              Items not specified below
              Cinema going
             Sports watching
              Sports playing
              Club/group activities organised kinds
             Reading/study and the like/night classes
             Constructive hobbies/collecting
              Looking after animals
                                                        4
              None (specifically stated)
           Where two or more are applicable, code the highest
             number code.
  B26
         SCHOOL REPORT
             Good, no evidence of truanting
             Good, but evidence of truanting
              Fair, no evidence of truanting
              Fair, but evidence of truanting
              Poor, no evidence of trushting
              Poor, evidence of truanting
             No information
  B27 LONE OR ASSOCIATED CRIMES (i.e. the crimes for
             which he was committed to Borstal) see police
             report
                      Leader of crime gang
                      Associated
                                               0
                      Lone.
                                               2
```

No information

```
PREDICTION METHODS IN BORSTAL TRAINING
284
     Reference
      Number
        B28
               WHETHER ANY INSTITUTIONAL RECORD
                   Do not include Home Office School
               Yes, several years
               Yes, short period
               None
                                 1 or n
               No information
        Rea
               HOW LONG AT HOME OFFICE SCHOOL
               None
               Under 1 year
               1-11 years
                                  0
               Over 11 years
               ABSCONDINGS FROM HOME OFFICE SCHOOL. Sec Court
         R30
                 Actual number written in from 1-8. 9+=9
                      None
                                  0
                      DNA
                                  ×
               NUMBER IN HOUSEHOLD-All relations living in house-
         B21
                    hold including subject
                Actual number written in from 1-9
                10+ coded as
                                 v
               No information
               No family or
                    institution
         B32
                PAMILY CRIMINAL RECORD
               No information
                Ves
                                  2
         Rss
                LIVING AT/WITH/HOME CONDITIONS
                Father and mother alive and living with
                Father and mother and siblings, i.e. brothers and
                    sisters
                Father only (no mother)
                Father, stepmother
                Mother only, no father (unknown)
                Mother, stepfather
                Institution/H.M. Forces
                Lodgings/relations/in-laws
                No fixed abode
                                                                v
                No information
                Wife and child/children
                Living alone in own house
                PSYCHOLOGIST'S ASSESSMENT OF PERSONALITY
         R84
                Very good
                Good
                                  2
```

Fair Poor

```
Reference
 Number
    Bas.
          PSYCHOLOGIST'S PROGNOSIS
            Code as above, i.e. as in item B34.
    B36
          EDUCATIONAL STANDARD
            From psychologist's report.
                         Good
                         Pair
                                             0
                         Red
                                             n
                         No information
                                            ÷
          WHETHER RECOMMENDED FOR BORSTAL TRAINING BY
              PRISON COMMISSIONERS
                         Vec
                         No
                                    x (includes no information)
    B88
          NUMBER OF SIBLINGS (excluding subject)
          Actual number written in from 0-9
          10+ coded as
                             ×
          No information
Codes B39-B42 give data on the town in which the boy was living
    before the crime.
    B39
          Home town-Industrialisation index
          001-009
                            n
          910-019
          020-089
                            2
          040-069
          070-099
                            7
          100+
          London area
          Don't know
          Scotland
                            8
    B40
          Home town-Size of town by population
          Under 10.000
          10,000-19,999
                            2
          20.000-29,999
                            8
          80,000-39,999
          40,000-99,999
          100,000+
                            6
          London
                            ÷
    B41 Home town-Rateable value per head to nearest pound
                           e1
                           20
                                           0
                           22
                                           2
                           24
                           25
                           88
```

£7 £8 £9 £10 London Rural

\*

286

# Number

B42 Home town-Rates in the £1

	15/-	
	16/-	
	17/-	
	18/-	
	19/-	

20/-21/-22/-28/-

24/-+ London Rural

B43 Time when Borstal file was received In the first batch from the Home Office Received on 28rd January Received between 1st and 14th February Received on 14th February

Borstal file not yet received.

2

# APPENDIX II

# Notes on the Statistical Methods

STATES CORRELATION METHODS

Different systems have been used to express simple correlations with the following points in mind.

We have had to consider the need to compare our results with previous works. notably the Gluecks' "500 Criminal Careers". In these cases we have used the mean square contingency as, for example, discussed in Yule and Kendall "Introduction to the Theory of Statistics" (p. 68 of the 18th edition). This seems to have been the coefficient used by the Gluecks. The absence of numbers in some of their tables precluded any check that this was in fact always so. It seems that the formula for their coefficient was

$$C = \sqrt{\frac{\chi^3}{n + \chi^3}}$$

 $\frac{-v + \chi'}{(\text{see their p. 239})}$ We have preferred the formula

$$\sqrt{\frac{\chi^2-d.f.}{n+\chi^2-d.f.}}$$

Since the degree of freedom are usually few, the coefficients are usually comparable within quite small limits.

In other cases we have had continuous variables, and for obvious reasons we have then used the product moment correlation r where

$$\tau = \frac{\sigma_{ay}}{\sigma_{a}\sigma_{a}}$$

This necessitated the use of a further coefficient to give comparability between our product moment correlation (used for continuous variables) and the coefficients used for dichotomies or other classifications. It will be realised that the product moment coefficient has limits of +1 whilst the limits for C or our formula including the degrees of freedom does not reach these limits unless the number of categories is infinite. The series tends towards the limits of ±1 quite quickly, but not quickly enough for comparability in most of our tables. We have accordingly quoted a coefficient (indicated a Ro) in some cases which makes correction for the restricted limits and renders the contingency coefficient reasonably comparable with the product moment. Readers who compare the product moment coefficients with the contingency coefficient ro will not get an unreasonable impression of the differences in discrimination between continuous and discrete factors.

On another occasion we have had to use r biseriel as the most efficient indication of the difference between two sets of data as indicators of success and failure.

y" TESTS

In many cases where the correlations were small or for other reasons the meaning attaching to the table was regarded as unimportant we have calculated and shown only the  $\chi^2$  and the degrees of freedom on which this was based.

y2 is not a valid test where the expected number in any cell is less than 5. Accordingly, the pooling of small cells has often been necessary. The x2 and the degrees of freedom are quoted for the pooled table. In the majority of cases there was little or no room for variation in the pooling. In cases where alternative poolings might be made, the preference has been for those poolings which evened out the irregularities of the scores of the rows and columns. Other poolings were tested and in no cases were there differences of any significance.

PREDICTION METHODS IN BORSTAL TRAINING

Dichotomies are cuts made as nearly as possible to divide the scores of the rows and columns as equally as possible.

No account has been taken of the progression of signs in calculating the probability of y1. We were not particularly interested in establishing the probability very precisely since the apparent precision might well be offset by the loss of information in some categories.

BASIS OF BUILDING PREDICTION TABLES

The general technique used was that of multiple regression. Solutions were worked out from matrices of correlations (rather than covariances) since the zero order correlations were required for other purposes in the report, and for the selection of the items to be included in the matrix to be inverted. The weights were derived to two places of decimals and subsequently modified to integers before reproducing on the Hollerith cards and deriving the "experience tables". The integers were chosen to minimise the differences of the ratio between the original weights and the integer weights. The loss of information due to rounding may be expected to be negligible, especially in view of our findings given in Appendix III, where it is shown that even the utmost violence to the weights made no more than 2% difference to the precision. It must be explained how multiple regression techniques were applied to attri-

hutes. The problem was attacked in two stages. We first considered all attribute data on its own, ignoring variables. The attributes were then weighted to provide the "best" estimator of the criterion and this equation was treated as a score and not into the variables matrix as a further variable. The result of the final solution was applied to the "score" and to the variables themselves to derive weights which were proportional to the original numbers and the approximations made to the nearest integer as mentioned above. The "second" equation to which we have referred was derived by taking the centre group "X" (in our notation of p. 153) and repeating the process outlined above.

The loss of date does not permit us to utilise these results, but the technique may be

of use on other occasions. Some specimens of the hasic matrices are reproduced in the following pages. Where the system was simplified, the fuller matrix has been given.

> CORRELATION MATRIX VARIABLES-FIRST MATRIX

	Score	Age first court	No. court appearano	Age first exime	Longest jo	Average	Criterion ]	Criterion 5	Criterion 8
ighted									
	1	+-48	+-41	+-43	+-25	+-21	+.30	+.25	+-28
ilit		1	+-52	+.88	+.21	+.19	+.11	+.17	+ .06
			1	+.55	+.10	+.10	+.22	+ 25	+.23
me				1	4-19	4-16	4-00	4-10	4-05

+70 +15 +15 +12

+-15 +-12 +-14

Score (attributes wei-Age at first finding of gu No. of findings of guilt Are at first recorded crime Longest duration of any job Average duration of jobs Criterion 1 Success/failure (discriminant)

sum)

Criterion 2 (Number of erimes

after release) Criterion 3 Job stability on release

Notes (i) This matrix was subsequently reduced by omitting factors which did not contribute information of significance.

--04 --31 --12 --03 +-13 +-18 +-23

+48 +57 -15 -03 -15 +04 -12

0 --- +·02 +·55 60-99%

(high)→ rest (low)

Since child-

hood-+

others

Tinskilled-

others

Unskilled-

others

others

or associated

families

+-14 +.861

Loitering, etc.

#### B21 Occupa-+-34 +-02 ---22 +--03 ---16 ---11 tion of head of house B22 Last oc--.14-- 18 -- 15 -- 09 cupation of subject

8 Ħ d 설 Stav

Reference (2)

BS Intelli- 1 -.18

gence

B19 Length of

stay at

address

**B25** Leisure

B33 Family

record

siblings

criminal

B38 Number

A10 Criterion

(1) "Onen" or "closed"

Borstal Number of misde-

activities

B27 Lone or

associated crime

> +-15 +-15 None→some record known +.12 0-3 siblingslarger

> > +-10 -.24-.15

+-55 +.04 +-20

-- 20 -- 07 Loneus

> 1 None-→some

Original

failure Criterion

score

Notes (1) This serves only as an illustration of what might be done. The correlations are based on too small numbers. (2) Reference numbers relate to coding list given as Appendix I.

(3) Correlations are dichotomies as shown. (4) Items with promising weights: Leisure activities

Occupation of subject Intelligence.

# CORRELATION MATRIX

# Pre and post-Borstal Factors

# .

Open"/	
'Closed''	
Boretel	

Number of No. of misdeabreondings meanours --11

Number	of abscond-	1	04
ings (2) Original	failure score		1
Cultorion			

Notes (1) "Open" Borstal weighted as unity, "closed" as 0. Product moment correlation.

## APPENDIX III

# $A\ Comparison\ of\ Systems\ of\ Weighting\ of\ Scores$

We have claimed that the soering weights derived from the mathematical systems of in this study or "best weights." The term "best" is a technical one meaning used in the study of the stud

type of work. There is no method of ensuring that overlap of factors is accounted for, which at the same time does not automatically provide optimum weights. In our study a large number of factors which were given no weight at all in the final equation vanished from the system because of complete or almost complete overlap with other factors. Any check of the one system against the other would involve a subjective judgment as to what factors were given a unitary weight, and what others were omitted from the system, either because it was suspected that overlapping accounted for a large part of their contribution to the information which they appeared to give (on the basis of, say, the zero order correlation) or for some other reason. It is not, therefore, possible for us to compare the unitary weighting system as it might he operated in practice, since we do not know what sort of subjective judgments other research workers would make. We may only suppose that the subjective judgment resulted in the exclusion of all factors which overlapped completely, or almost completely so that they added nothing to the information of the set. We can then rework our system with unitary weights instead of the weights derived from the equations. We are thus giving to the unitary weighting system

one of the main advantages of the optimum system hefore we make any comparison. In order to make an empirical test of the effect of using simple weights we drew a random sample of 118 cases (using end digits of the serial numbers) and recalculated the experience tables. Unfortunately, unitary weights could not be given to one quite important factor (the employment that is. This was because we did not use any subjective classification of employment that recorded duration. The weights

TABLE A

A comparison of the distribi	ution of unitary-weighted and
optimum-weighted score	s for pre-Borstal factors

Unit	hts				otimus eights	
Score	No.		See	ге таг	uje	No.
0	0		0-	unde	r 6	4)
1	0		6	**	11	8 12
2	0		11	**	17	29
8	10		17	**	22	28
4	18		22		28	19
5	29		28		33	16
6	22		33		89	40
7	25		39	**	44	8/9
8	9		44	**	50	2
Total	118		Th:	tal		113

which we can give to this factor are evenly stepped in terms of standard measure. The difference between the unitary weights and the optimum weights can only above itself in the remaining factors and on the assumption that the selection of factors was the best selection although in practice this would have been a subjective selection.

We show below the shape of the distribution of the scores to the two systems, when the cutting points are matched by giving the greatest advantage to the unitary weightings. It will be seen that the optimum weightings result in a better spread of the scores. The improvement is in the discriminating of the good and bad cases, and the scores of the scores of the scores of the scores of the scores. Table A shows the comparative distribution of that part of the score of the scores and Table B the distribution for both pre-Boxells and Boxtain factors, and Table B the

TABLE B

A comparison of the distribution of unitary-weighted and optimum-weighted scores for pre-Borstal and Borstal factors

Timitom malahte

Cintary weights		Optimum weights			
Score	No.	Score	No.		
0-4	25	0-8-9	18		
5-8	50	9-16-9	25		
9-12	27	17-24-9	29		
13-16	8	25-32-9	29		
17 and over	r 8	83 and over	17		
Total	118	Total	118		

The correlation obtained between the score and the criterion when worked from the unitary weight is slightly less than that obtained from the optimum weights. This difference is small since the main contribution in the likely difference is lost. The contribution is the likely difference is lost because so large a part of the optimum system was induced in the unitary system. It is, however, important to note that even when all allowance is made for the "overlapping" and the inclusion of one important factor depends on optimum and "overlapping" with the inclusion of one important factor depends on optimum used weightings. The advantage is greated when for the contribution of the scores when the greater discriminating power at the extremes, coupled with the most unitable shape of the distribution of the scores, would enhance the efficiency of the subsequent workford.

## APPENDIX IV

# Headings from Current Borstal Files and Notes on Contents

Cover page: Location Name

Number Columbian Test score Religion Home visit (date(s))

Visitor's name Borstal to which allocated and date

Page 1 Photographs on reception and discharge

Date of expiration of sentence of detention Date of expiration of licence

Record of movements

Page 2 The medical record: State of general health (1 line)

Physical condition (1 line)

Height Is there full power in motion in joints and limbs? (space)

Chest measurement
Condition of lungs (line)

,, heart ,,

, vision ,, ,, teeth ,, ,, hearing ,,

,, other organs ,, Class of labour and restrictions if any (1 line) Whether fit for

Free gymnastics

Ordinary physical drill Special maladies from which prisoner is stated to have suffered

(space for record)

Mental condition (space with no prompted items but note reading,

"attention is to be particularly drawn to any abnormal mental
condition liable to prevent the prisoner from profiting by Borstal

training")

Particulars of family history available (space)

General remarks (space with note, "Any morbid physical condition, deformity or peculiarity such as hernia, variouse veins, hammer toes, etc. Only those should be recommended who are capable of receiving education and instruction in a trade")

Whether fit for Borstal training (1 line) Record of admissions and discharges

Record of admissions and discharges Hospital record, giving date of admission and discharge with space for "Cause of admission and result"

Record of height and weight (for use at the Borstal Institution)
Discharge, physical and mental condition (small space)
Fitness for discharge

Page 3 Home and School report: Place of birth

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Address of parents (or next of kin) and their occupation State whether parents are living (space) Employment since leaving school (lad's own account) (columns

headed-Name and address of employer, nature of work, Dates from, to, wages, reason for leaving) Personal description:

Address of last place of residence, and whether home or lodgings

Married/single Religion

(space)

Complexion Hair

Eves Distinctive marks and peculiarities

Height

Particulars of service in H.M. Forces (if any) (space)

Whether detained in any Institution Industrial or Reformatory School, Asylum, etc.). If so, give particulars as to time, licence, etc. (space)

Record of offences and convictions Particulars of offence resulting in revocation of Borstal licence

Housemaster's opinion

Page 4

(blank page-no notes or further headings or prompts) Governor's and Medical Officer's opinion (blank page-no notes or further headings or prompts)

Page 5 Badge money

Page 6

Page 7

Page 8

Trade proficiency report(s): Date of entry to party

Date of leaving party Conduct (space) Does he work steadily? (space)

Is he reliable when left to himself? (space) What can he do? (space-but see below)

Would you expect him to earn outside? (space) Why did he leave the party (if he did)? (space)

Signature of instructor Record of report differs for each trade group, giving syllabus of the course, and space for initials of instructor and date "when reasonably

"All incidents worthy of note to be recorded in chronological order, and those falling under the following heads to be denoted by an

proficient". History:

index letter: B.A. Borstal Association. I.B. Institution Board. M. Misconduct and punishment (to be entered in red). P. Petitions. V.C. Visiting Committee. Letters should be entered on page 8."

rited image digitised by the University of Southampton Library Digitisation Uni-

Columns below this note headed. Index letter: date: particulars: remarks

Record of letters written and received

Names and addresses, outward, date and initials of officer, remarks inward, date received and initials of officer

(a) Conduct (space) (b) Educational progress (space) (c) General (space) Remarks by Medical Officer: (a) Health (space) (b) Whether fit for discharge (space) (c) General, as to constitution, character and disposition (space) Remarks by Governor: (a) Conduct and industry (space) (b) Kind of work for which qualified (space) (e) Work desired (space) (d) Whether prisoner can obtain work by his own efforts (space) (e) Whether aided on previous discharge (space) (f) Prospects of employment (space) (g) General (space) Decision of Young Prisoners' Committee (space) Signature of Chairman Discharge report and assistance granted Decision noted by Chief Officer Governor's Office Date of discharge Destination (space) Employment found (space) Subsequent history as shown by reports from Assisting Society or Agent (space) General remarks by Governor on reception, based on personal observa-Page 10 tion as to character and temperament Note follows above heading, "On subsequent receptions any additions or qualifications should follow in chronological order. Each entry should be signed, dated and state the prison at which made." (Blank page follows with no further headings) General remarks by Chaplain on reception (reference to notes above) (Blank page follows with no further headings) Copy of recommendation or medical report made to Governor Page 11 Police report Pro forma letter requesting: (1) A report on the circumstances of the offence (2) Particulars of place of birth (3) And as full information as you can give about (a) the person's previous history . . . (examples quoted) (b) The home circumstances . . . (examples quoted)

PREDICTION METHODS IN BORSTAL TRAINING

view to assistance on discharge Name Prison

Name Prison Remarks by Chaplain:

Information for the guidance of the Young Prisoners' Committee with a

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Page 9

(c) The general character of the person and companions

# Page 12

"What schools has he attended?" (space)

Parents:

"Have you ever thought that there was anything wrong with his mind? If why and when."
"Record of occupations. As it is desired to obtain a complete record

in respect of time since leaving school, please fill in the following, and state how the time during periods of umenployment has been spent." (7 lines headed "Name and address of employer; nature of work, duration, wage, cause of leaving").

"How has any spare time been spent?" (space of 4 lines)
"Are you prepared to give him a home and supervision when he is

again at liberty?" (This question should not be answered if he is on bail.) (space)

"What prospects has be of obtaining work?" (space)

"Can you or any other relations or friends in the neighbourhood or at a distance provide or obtain such work?" (space 5 lines)

"Names and addresses of any persons who can and would be willing to give further information?" (space) Any further information which you think might be useful (space 8 lines)

# Signature and address

Page 13

Page 14

# Employers Pro forms letter. Questions follow:

"The stated date of birth is ——. Is this correct?"

"Between what dates was he in your employ?"
"What were the wages and nature of employment with you?"

(space)
"What was his general character as an employee especially with

reference to timekeeping, efficiency and honesty?" (space)
"Why did the employment cease?" (space)
"Would you be prepared to offer further employment?" (space)
"Can you give any information as to the character of the home, the

parents and associates and how the person in question spent his spare time?"\*

"Can you give any other information which might be of use?"

References
Pro forma letter; followed by questions:

"For how long has he been known to you?" (space)

"Will you kindly state the date of birth?" (space)
"What do you know of the person's general chearacter and conduct?" (1 line)

"Has he been honest?" (1 line)
"Has he been industrious?" (1 line)

"How has he been earning a living and will you state the name and address of the employer?" (4 lines)

"What was the character of the home?" (4 lines)
"What sort of company does he keep?" (4 lines)

"Are there any relatives or friends able and willing to receive and help the person to obtain work when again at liberty?" (4 lines)

(4 lines)
"Would the person be suitable for Borstal training, that is, would there, in your opinion, be any response to efforts calculated normally to teach, train and help?" (4 lines)

School life (if known) "Name of school" (1 line)

Probation

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> discharge" (space) "Standard reached" (1 line) "General conduct" (1 line)

"Employment since leaving school" Columns headed, "employer and address, kind of work, dates,

wages, remarks"

Pro forma letter followed by questions: "Address" (space) "Parents living?" (space)

PREDICTION METHODS IN BORSTAL TRAINING

"General character of home and relations with parents" (space) "Whether parents are able to receive and look after the person in

Footnote, "if no work has been done or if there have been long

spent" "Particulars as to habits, associates and general interests, occupa-

tion of leisure time (e.g. whether in touch with Young People's Institutions)" (15 lines)

"General remarks" (8 lines)

(4 lines)

School Pro forms letter. Questions follow: been known?" (1 line)

Page 16

Page 17

"Will you please state the date of birth?" "In what standard did he leave school?"

character hitherto?" (3 lines) (3 lines)

(3 lines)

(8 lines) normally to teach, train and help?" (1 line)

"Would you kindly set out any further information which you consider to be useful and necessary?" (4 lines) Approved School

Pro forma letter. Questions follow: Date of birth Date of admission (to Approved School) (space)

necessary in this case?" (1 line)

breaks between jobs, please say how such spare time has been

"Whether a further period of probation is recommended" (4 lines) "The nature of the work, if any, at which the person would be able to earn a living on discharge, or which appears most suitable"

"Is the person known to your Authority, and if so how long has he

"Had he or she any special ability or defect of physique or intelligence which hindered educational development?" (3 lines) "Has he been honest, sober, industrious and generally of good "How long has he been earning a living and by whom employed?"

"Can you give any information as to the character of the home, parents and associates and how spare time was spent?"

"Are there any relatives or friends able and willing to receive and help the person to obtain work when again at liberty?" "Would it be a suitable case for Borstal training, that is, would

there, in your opinion, be any response to efforts calculated "Do you consider that a prolonged period of detention is un-

Reason for admission (space)
Date of leaving (space)
Dates of recall or readmission (space)

Personal characteristics:

Physical (space) Intelligence (space) General character (space)

Character of home:

Description of home surroundings (space) Parents or Guardians (space)

Local friends or possibilities of help (space)

School characte Schoolroom

Schoolroom progress and attainments (space) Progress in other training departments (space) General social life (space)

History since leaving school:

Jobs (space) (no headings) General character (space)

Any offences (space)

Dates of visits paid by school officers with very brief report (space)

Assessment of character:

"To what do you attribute breakdown?" (space)
"Are you prepared to recall or re-admit to the School should the
Court order?"

"If not, what course of treatment do you suggest (e.g. probation, committed to Senior School, Borstal training, etc.)" (space)

"Reasons for this suggestion" (space)
"Will a representative be present when the case comes before the
Court?" (space)

Page 18 Army reference (where appropriate)

Pro forms letter. Questions follow: "Service in Army" (give dates)

"Has he been discharged? If so, Date of discharge Cause of discharge"

"Assessment of military conduct" (space)
"Character in testimonial form" (space)

"Other information that may assist the Court" (space)

In addition to these standardised forms, the Allocation Centres produce a number of their own pro format to assist them and members of their staff. There is now attached to each Allocation Centre a permanent psychologist and education officer. Tests now finding (et Lackinene Ghoss)) matrices, substructions, gedling, artifireports on reading ability, hobbles and smibitions and notes the participation in voluntary activities at the Allocation Centre.

#### APPENDIX V.

### Governors' and Housemasters' Reports

These reports were made immediately before discharge on licence. The Governors and Housemasters were given very free scope in what they put into their final reports on each youth. In fact, the form provided for these reports gave no guidance or direction as to the items which the Governors should consider-the form was a blank sheet of paper. Naturally Governors and Housemasters had their own points of view-some considered one factor to be important, whilst others did not consider it at all. In reducing the information in these two reports to statistical data, we were fortunate in that a carbon copy of the reports appeared in the files of the Boratal Division of the Central After-Care Association. Thus, in two different parts of London there were to be found two sets of the same information. At the Borstal Association's headquarters one team of investigators were abstracting the follow-up data from the Borstal Association records, whilst the abstraction of the information from the Borstal files was carried out at the Social Survey's headquarters. It was possible, therefore, to instruct both groups of people to carry out the same task of interpreting the Governors' and Housemasters' reports, so that both groups were reading the same report quite independently. There was no way in which the investigators working on the Borstal files and those making their assessments on the carbon copies could cross-check their results. In order to make completely sure of independent working, the code reference numbers and the scale of assessment were different for the two places. Only after the two sets were married up by the mechanical analysis could the results be compared.

No particular factor could be abstracted from either of these reports because of their general nature. Accordingly the two sets of investigators rated these reports as to how well or badly they reflected upon the chances or likelihood of success. A simple four-point scale ranging from very good to bad was used at the Borstal Association headquarters, and a category was provided for cases where the investigators considered the remarks of the Governors or Housemasters to be so general that they could not code them; whilst at the Social Survey headquarters a fivepoint scale ranging similarly from bad to very good was used with a similar category for uncodeable cases. Since the five-point scale presented more difficulties in classifying due to the finer gradings, it was considered that two persons reading and discussing the meaning of the report would together obtain a more useful interpretation of the information. If the data were ideal, then we should expect complete agreement between the two groups of interpretation subject to changes in the scale. If on the other hand the difficulties of interpretation could be overcome by using more experienced personnel i.e. better system of coding, we should expect the two assessors working together with a discussion of each case to yield better results than the one assessor working alone. We should thus get some indication of whether the cause of differences between coders or coding systems lay in the Governors' and Housemasters' reports themselves, or in weaknesses in the interpre-

tation of these reports, or partly in both directions.

These reports represent subjective assessment techniques where freedom of style and content was completely unsertificted. The data were both obtained in unstructured ways and reported in completely free argie, with neither Covernate Housemosters being directed (or guided) in any specific way to consider any aspect of which their stops with the content of the content o

judgment could be a means of prognosis, these reports should represent the best material of its kind. We show first, in Table 1, the cross-analysis of Governors' reports (as interpreted

by our "better" system of interpretation-System A) with success and failure. TABLE 1

Governor's report analysed by the criterion (better system of interpretation) (System A)

Governor's Report	Success	Failure	Total
Very good	2.5	12	87
Good	99	88	187
Fair	104	119	223
Poor	54	78	127
Bad	6	15	21
Uncodeable	17	15	32
No information	21	72	98
Total	990	904	mo

y1=11-972 for 4 degrees of freedom P between 0-02 and 0-01

The correlation between prognosis and success-failure is very low indeed at 0-152\*

ference is, however, slight, as shown in Table 2.

and could occur by chance in between 1% and 2% of random samples of this kind. Housemasters would normally bave reported first and the Housemaster's views would be before the Governor when be made his assessment. It is somewhat surprising, therefore, to find that a better prognosis would be derived from the Housemaster's report unmodified by the Governor's later comment. The dif-

TABLE 2 Housemaster's report analysed by criterion (better system of interpretation)

(System A)							
Housemaster's Report	Success	Failure	Total				
Very good	85	12	47				
Good	102	94	196				
Fair	119	188	252				
Poor	44	74	118				
Bad	11	15	26				
Uncodeable	1	2	3				
No information	14	64	78				

χ2=19-618 for 4 degrees of freedom P less than 1%

Total

ró m 0-204 \* The correlation coefficient may vary from -1 to +1, where +1 indicates complete agreement between two things and 0 indicates no agreement at all, while-1 represents complete and inverse agreement.

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The Housemaster's prognosis correlates to 0-204 with success-failure, a result outside the 1% chance limits. The system of interpretation and the agreement between Governors and Housemasters form the basis for our next analyses. In Table 3 we show the cross-analysis of Housemaster's and Governor's reports (on the same ladd as interpreted by water A.

TABLE 3
Governor's and Housemaster's reports compared
(better system of interpretation)
(Sustem A)

	Governor's report							
Housemaster's report	Very good	Good	Fair	Poor	Bad	Un- codeable	No infor- mation	Total
Very good	28	10	2	_	_	4	3	47
Good	8	122	52	5	-	8	1	196
Fair	1	51	136	36	8	15	10	252
Poor	_	1	31	74	5	4	3	118
Bad	_	1	_	12	13		_	26
Uncodeable	-	_	2	-	-	1	-	8
Total	37	185	223	127	21	32	80	*656

# r=0.76 \* Excluding 4 cases of no information.

The agreement between the two reports is quite high with a correlation of 0.76.
There is also a considerable degree of agreement evident between Governors and
Housemasters when we consider the figures derived from the simpler system of
interpretation although the correlation is lower, at 0.57 as shown in Table 4.

TABLE 4
Governor's and Housemaster's reports compared
(simpler system of interpretation)
(Swstem B)

	Governor's report					
Housemaster's report	Very good	Good	Fair	Bad	Don't know or uncodeable	Total
Very good	137	49	6			195
Good	60	178	45		l 6	289
Fair	4	42	46	l —	5	97
Bad	_	_	_	_	_	_
Don't know or un- codeable	_	1	_	_	2	8
Total	201	270	97	-	16	*534

r=0.57
\* Excluding 136 cases of no information

respect of both Governor's and Housemaster's reports. These analyses are given as Tables 5 and 6 below. TABLE 5

Comparison of systems of interpretation of Governor's reports

Governor's	Governor's report (System B)						
report System A	Very good	Good	Fair	Bad	No infor- mation	Don't know or uncodeable	Total
Very good	80	1			6	_	37
Good	95	59	4	-	28	1	187
Fair	41	127	16	_	85	4	223
Poor	8	45	51		20	8	127
Bad		5	15	-	1	-	21
Uncodeable	14	10		The Co	5	8	32
No information	13	28	11		41	5	98
Total	201	270	. 97		186	16	720

χ<sup>2</sup>=138-6 for 2 degrees of freedom P. less than 1% r = 0.682

TABLE 6 Comparison of systems of interpretation of Housemasters' reports

Housemaster's	Housemaster's report (System B)							
report System A	Very good	Good	Fair	Ead	No in- forma- tion	Don't know or un- codesble	Total	
Very Good	33	5	_	-	9	_	47	
Good	100	67	1	-	28		196	
Fair	49	139	25	l —	39		252	
Poor	8	54	40	=	20	1	118	
Bad		8	15	I —	3		26	
Uncodeable	1	1	1	_	_		8	
No information	9	15	15	-	87	2	78	
Total	195	289	97	-	136	8	720	

P less than 1%

is about the average for such interpretation of subjective judgments. The "better" system of interpretation was more than six times as expensive to operate as the

r=0.612 The agreement between the two systems of reporting is fair, at 0-63 and 0-61. There is no significant difference between these two coefficients and we may assume that with both reports interpretation was equally difficult. There is clearly a difference between the two systems of interpretation. But the degree of agreement reports to provide prognostic information were due to the system of interpretation we should expect the better system to give better results when tested against the criterion. We have already seen that Governor's and Housemaster's reports seem to agree more when interpreted by the "better" system, and we have noted coefficients of association (rφ) of 0·15 and 0·20 with success-failure for these two reports when the same system of interpretation was used.

Tables 7 and 8 below show the simpler system of interpretation analysed by the criterion

TABLE 7 Governor's reports analysed by the criterion (simpler system of interpretation) (Sustem B)

Governor's report	Success	Failure	Total
Very good	112	89	201
Good	127	148	270
Fair	30	67	97
Bad Don't know or		-	-
uneodeable	4	12	16
Blank	58	88	136
Total	326	894	720

χ<sup>2</sup>=16-4 for 2 degrees of freedom P greater than 1% level rd=0.22

TABLE 8

Housemasters' reports analysed by criterion (simpler system of interpretation) (Sustem B)

Housemaster's report	Suecess	Failure	Total
Very good	115	80	195
Good	124	165	289
Fair	32	65	97
Bad			_
Don't know or			
uneodeable	2	1	3
Blank	58	88	186
Total	326	394	720

y==20-6 for 2 degrees of freedom P greater than 1% level 76=0-25

We thus find that the Governors' reports when interpreted simply are significantly associated with success-failure at more than the  $1^{\circ}_{\circ}$  level. The coefficients of association ( $r^{\circ}_{\circ}$ ) are

System A Governors 0-13 Housemasters 0-20 System B " 0-22 " 0-25

There is octainly no evidence that the expenditure of six times the effert on the nection of interpretation protocols any better result. This may be due to the fact that the slight incessor was contamingly good at interpretation and produced exhibit the slight incessor was contamined to a more challenged by the contamined of the contamined that the contamined that

Whatever the reason, the simple direct interpretation agrees better with the known routh than does he more complex. ("better") system of interpretation. It is about the concluded that the follows of these reports to afford say valsable produced that the follows of these reports to afford say valsable produced to the conclusion of the conclusion of the same state of foreign time a lady fatture. It may be that the "better" system failed because of foreign time a lady fatture. It may be that the "better" system failed because of foreign time to lady fatture. It may be that the "better" system failed because of foreign time to lady fatture. It may be that the "better" system failed because of foreign time to the same state of the same state of

There is, however, little doubt that the Governors' and Housemasters' reports could be made more valuable if the difficulties of interpretation could be overcome. This could only be achieved by requiring a more objective and structured approach. Part of the trouble in utilising these subjective assessments lies in the nature of subjective judgment and only part in the particular system of reporting used.

#### APPENDIX VI

# Copy of Interim Report on Validation

### PRELIMINARY REPORT ON THE BORSTAL VALIDATION

Members of the Committee may be interested to know the results we have so far obtained from the application of the original scoring system to the cases which have so far come to band from the 1948 sample.

Perhaps the most rigorous test of any prediction table is to use it for prediction! The test applied to the 215 cases so far received was to take the final prediction table (Table 90\* to the original numbering) and predict the numbers of cases likely in the new sample. Table 90 uses both pre-Borstal and Borstal factors whilst for the validation sample it was possible only to secure information on pre-Borstal factors. The results expected from the validation are, therefore, set rather higher than we would expect to achieve. However, the two sets of figures compare remarkably well. In the tabulation below we show the expected numbers in each group and those actually observed.

#### A comparison of the prediction and the results

	Predicted		Predicted			rved
Group	Successes	Failures	Successes	Failures		
	No.	No.	No.	No.		
Top 20%	37	6	85	8		
Next 20%	30	13	81	12		
Centre 20%	27	16	20	23		
Lower 20%	19	24	17	26		
Lowest 20%	11	32	12	31		

Such a difference might well be due to chance sampling variations and certainly augurs well for the final result when the residual 100 or so cases are traced.

The validation sample does not have the complex factor of variable periods of exposure. All cases were given the same period of testing and any failures occurring outside the standard testing time have been regarded as successes. In fact, only two such transfers have been necessary. The direct comparison thus avoids the complex of artefacts and statistical devices used to overcome the variable exposure time previously necessary, and serves to demonstrate, besides validity of prediction, the validity of the artefacts themselves.

To the original scoring system with the centre "unpredictable group" removed the validation study is equally as satisfactory. Combining the A and B groups because of the small numbers involved we observe 76% successes which compares with 75% in the prediction, and for the CD groups we find 36% successes compared with a predicted 31%.

We could not attempt any prediction for the centre group using information on

leisure pursuits since these data were not available. The validation sample to date received is less biased towards success than the original sample upon which the equations were based and it is gratifying to note that

\* Table 81 in present text.

August 1958

#### APPENDIX VII

### Copy of Form used for Validation Study

#### BORSTAL PREDICTION STUDY

Working in 1846-7 Borntal entries, it has been found that a system of classification secording to likelihood of subsequently reforming or returning to crime seems possible. In order to check this, it has here decided by the Pour Commissioners to apply the "prediction taskes" to all Latchmer House entries in the latter part of 1948—a total of about 300 cases heig required.

1948—a total of about 300 cases heig required.

1948—in refer that the "prediction sours" may be calculated, the following information

is required about each entry. NAME ..... BORSTAL NUMBER ..... BORSTAL TO WHICH ALLOCATED ..... DATE OF APPEARANCE ON CHARGE WHICH RESULTED IN BORSTAL COMMITTAL ..... PLEASE WRITE "YES" OR "NO" Whether any evidence of excessive drinking (any charge of drunkenness, for example, or other reliable evidence) Whether ever on prohation prior to Borstal Whether ever at an Approved School Whether ever fined (prior to Borstal) Was he living at home with parent or parents (at time of Borstal charge) Please give town in which living at time of Borstal crime below What is the longest period he has stayed in any one job (i.e. with any one employer on one sort of work) ......weeks ......nonths Date of release from Borstal on licence Date of reception at LATCHMERE HOUSE SUMMARY OF CRIME RECORD Number of appearances in Court (resulting in finding of smilt)

prior to Borstal

Total number of offences committed

Number "taken into account" at "Borstal" trial

256

#### APPENDIX VIII

### Notes on "Five Hundred Borstal Boys"

Wizzs the present book was in galley, a study of Bontal Boys discharged from Borstal in 1914— was published by Mr. A. G. Rose entitled "Five Hundred Borstal Boys". Assuming an average period of detention of one war, this ample may be approximately related to intakes during 1940—8. Our own ample was thus some four or as years later, and did not enter the variety of the contract of

subjective assessments to objective factors and he did not go on to produce any prediction tables. Comparisons are, therefore, tenousa. Like ourselves, he found nearly all the correlations between his factors and criterion lower than the Gluckes and, although he attributed this to the better quality of their data, we are convinced that the real reason was the greater homogeneity of the Borstal population. In Borstal we are trying to distinguish between people who are more alike than were the Gluckes in their Reformatory cases, and the correlations (if this is so) must essentially fails.

In the following table we give some comparisons with the reservation that these should be interpreted with great care.

Comparison of "500 Criminal Careers", "Five Hundred Borstal Bons" and this Project

	'C' Values			
Factor	Glueck	Rose	Present	
Industrial habits Work habits Longest period in one job	0-42	0-29	0-19	
Seriousness and frequency of pre-Reformatory crime Total number of pre-Borstal convictions	0-86	0.23	0.23	
Mental abnormality on entrance Personality type Psychologist's assessment of personality Psychologist's prognosis	0-26	0.38	(insig.) 0-23	
Abscondings		0.15	0-13	
Frequency of offences in Reformatory Number of "reports" Misdemeanours (excl. absendings)	0-83	0-24	0.20	

Groups of factors which are similar have been grouped, but unless there is some reasonable comparability, we have inserted the coefficients on a different line. Again both Rose and the Gluecks used a three-way classification for success and failure and the oefficient C is affected by the number of estagoises. There is, therefore, very little real comparison across the three studies. It is, however, interesting to note that when Rose is dealing with the same factors as ourselves, the coefficients were recently sufficient with the same factual the Glueck's oefflicients were higher than in both Rose's study and ours. This could not be due to better data but only to population differences, as suggested above.

In addition to comparing correlations we may compare some direct district.

butions arising from Rose's and our own study. To shorten the presentation we give numbers for successes and totals with pre-range successil. Again Rose's work is not directly comparable with our own since he sampled at the "output" stage and not the input. Thus be has no information about cases who went into Borstal but who were not discharged from Bornia!. Comparable with the stage of the s

Year	1	2	8	4	5	0	7
IN Good Bad	10 10	20 20	30 30	40 40	50 50	60 60	70 70
our Good Bad		10	20	30	40 30	50 40	60 50

Then, if we sample years 4, 5 and 6, d output we get 30+40+50 good boys and 20+30+50 bad boys, that is 120 good and 9 bad. But the input was equally good and bad. Similarly in Borstal at any time we have different proportions of good and bad. Similarly in Borstal at any time we have different periot rot it may be of some effect. With this and other reservations we commer those few times where the definitions used by Rose were repeatable.

Number of Previous Convictions Rose Current % Success Number Sugges Total Same Total Rose Current None 90 40 h 54 91 283 27 78 144 J 22 913 106 254 35 44 14 5 or more 62 53 120 221 472 316 657 Totals

# Religion

Religion	Rose %	Current %
Church of England	71	72
Roman Church	23	22
Non-Conformant	5	5
Others	1	1

### Abscondings

Current	% 69 17 14*	
449 112 90 } 202		
651	_	
	691	

The excess found in the two or more abscandings category may well be due to Rose's method of sampling since persistent abscanders may be tranferred to prison or be sentenced to prison before detention in Boards. The plete. They thus appear in a sample which considers in framum to be the "input" end of the treatment, but not in one which treats the "output" as the basic population. Since Rose did not seek to predict he was free to decide which frame he would take, whilst we were not. We sought to predict for "input" and hence had to sample "imput".

Misdemeanours|Governors' Reports

		ose	Cur	rent.	% Success		
Number	Success	Success Total		Total	Rose	Current	
None 1 2 3 or more	129 39 28 24	228 79 56 88	132 71 40 73	223 141 88 205	58 50 50 27	59 50 45 35	
Totals	220	446	316	657	49	48	

It is interesting to note that for none and one "Gorennesi "sport" and for none and one "misdemeanous" the amples are very similar and that the over-all success rates are exactly similar. The difference is due to those cases where there were two or more "sports". Rose, however, includes "absroadings" with "reports", whilst we separated misdemeanous other "absroadings" with "reports", whilst we separated misdemeanous other than absoardings from the total number of reports. Comparison can, therefore, be made only at the dichotomy somehone device agreement absroaded without having some other misdemeanous on his record.

For a very small proportion of his cases Rose was able to find information about "home contacts" whilst the lad was in the institution. This analysis is not strictly comparable with our attempt to use the records of letters sent and received since it uses a subjective rather than an objective basis. However, it is interesting to note that Rose found a slight tendency for those with "regular" "home contacts" to be more often successful. (C=0.16).

Another interesting analysis with which we cannot make any direct comparison is Rose's interpretation of the Governors' and Housemasters' reports taken together. He interpreted these into four categories and derived a coefficient of 0.37 with his criterion. This is a higher figure than was obtained by any of our systems of interpretation of either Governors' or Housemasters' reports. But we did not combine the two. It is interesting to note that in our case the better system of interpretation was based on a copy of the renorts in the Borstal file whilst the worse system was based on the copy in the Aftercare files, and it was the worse system (i.e. After-care files) that produced the highest association with the criterion with re-0.25. Rose apparently made use also of the after-care files. Whilst conscious bias in interpretation is ruled out in both cases it is interesting to speculate what the effect of unconscious bias might be. "Halo-effect" is a well-known phenomenon and it is very difficult to design experiments involving subjective judgments where its presence is not suspected. Again the agreement between our two systems of interpretation was low, and we do not know whether Rose could obtain the same result if he were to interpret again the Governors' and Housemasters' reports.

Further comparisons between the two works are impossible or meaningless, due to the basic differences in approach-Rose rejecting the idea of repeatability whilst we have accepted the necessity of repeatability as a matter of primary importance. Perhaps Rose is right in rejecting objectivity and precision.\* We do not think so.

<sup>\*</sup> Rose, ibid., p. 19. "The assessments were guided by the following definitions, but these were not regarded as rigid categories." Ibid., p. 108. "To collect and consider figures for those who possess a number of objective' characteristics is comparatively simple. But facts are largely meaningless' unless we follow up by making assumptions. ."

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